ORDER NO. AD9302050C2

Service Manual

Portable Stereo CD System

Radio Cassette

RX-DT707

*1 DOLBY SYSTEM *2 MASH
multi-stage noise shaping

COMPACT
disc
DIGITAL AUDIO

Colour

(K) .... Black Type

Areas

Suffix for Model No.	Area	Colour
(EB)	Great Britain	(K)
(EG)	Europe and Germany	

TAPE DECK: RX-FD55 MECHANISM SERIES (AR300)
TRAVERSE DECK: SL-CH550 MECHANISM SERIES (RAE0111Z)

■ SPECIFICATIONS

General:

Power Requirement:	AC; 230~240 V, 50 Hz Battery; 15 V (10 R20/LR20, UM-1 batteries) Memory Back-up for Computer/Clock; 6 V (4 R6/LR6, UM-3 batteries)
Power Consumption:	57 W
Power Output:	Low ch; 11.6 W×2 (PMPO) High ch; 4.2 W×2 (PMPO)
Speaker:	Woofer; 10 cm PM Dynamic speaker 2.7Ω Squawker Tweeter; 8 cm PM Dynamic speaker 8Ω
Inputs:	MIX MIC; 2.5 mV, 200~600Ω, ∅3.5 AUX; 200 mV, 47 kΩ
Outputs:	HEADPHONES; 32Ω, ∅3.5 CD OUT; 1 V (CD 0 dB)
Dimensions:	710 (W)×205 (H)×263 (D) mm (When the top panel is open)
Weight:	8.0 kg without batteries

Disc Player Section:

Sampling Frequency:	44.1 kHz
Decording:	16-bit linear
Beam Source:	Semiconductor laser (wavelength 780 nm)
No. of Channels:	2 channels, stereo
Frequency Response:	20~20,000 Hz (+1, −2 dB)
Wow and Flutter:	Unmeasurable
D/A Converter:	MASH (1 BIT DAC)

Radio Section:

Frequency Range:	FM; 87.5~108 MHz LW; 144~288 kHz MW; 522~1611 kHz
Intermediate Frequency:	FM; 10.7 MHz AM (LW/MW); 459 kHz FM; 5 μV/0.1 mW output (−3 dB Limit Sens.) LW; 100 μV/m/0.1 mW output (Max.) MW; 56.3 μV/m/0.1 mW output (Max.)

Tape Deck Section:

Frequency Range:	30~16,000 Hz (with normal tape) 30~17,000 Hz (with CrO_2 tape) 30~18,000 Hz (with METAL tape)
Recording System:	AC bias, AC erase (Deck 2)
Tape Speed:	4.8 cm/sec.
Monitor System:	Variable sound monitor
Track System:	4-track 2-channel stereo recording and playback

***1 Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.**
"Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

***2 Technics (or Panasonic) developed the world's first MASH type DAC and ADC. MASH technology was invented by NTT (LSI Labs).**
MASH is a trademark of NTT.

Notes:
1. Weights and dimensions shown are approximate.
2. Design and specifications are subject to change without notice.

Panasonic

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■ PRECAUTION OF LASER DIODE

CAUTION: This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pick up lens.
Wave length: 780 nm
Maximum output radiation power from pick up: 100 µW/VDE

Laser radiation from the pick up unit is safety level, but be sure the followings:

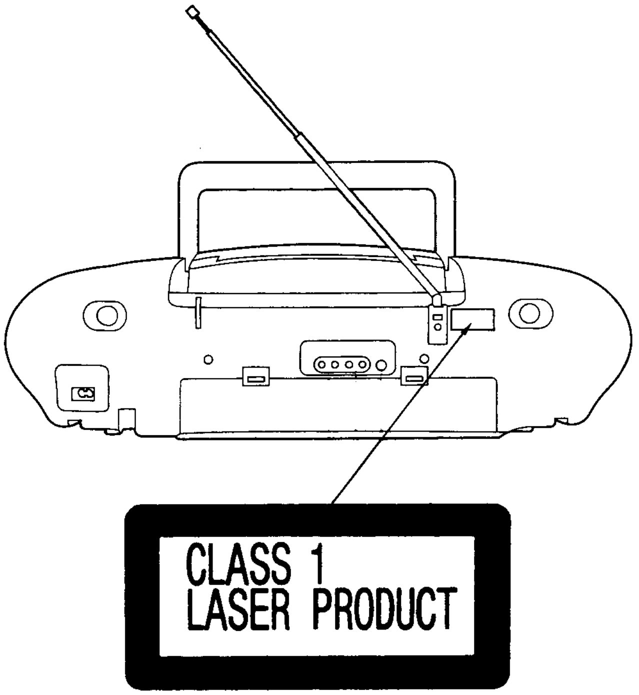
1. Do not disassemble the optical pick up unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not lock at the focus lens using optical instruments.
4. Recommend not to lock at pick up lens for a long time.

ACHTUNG: Dieses produkt enthält eine laserdiode. Im eingeschalteten zustand wird unsichtbare laserstrahlung von der lasereinheit abgestrahit.

Wellenlänge: 780 nm
Maximale strahlungsleistung der laserinhelt: 100 µW/VDE

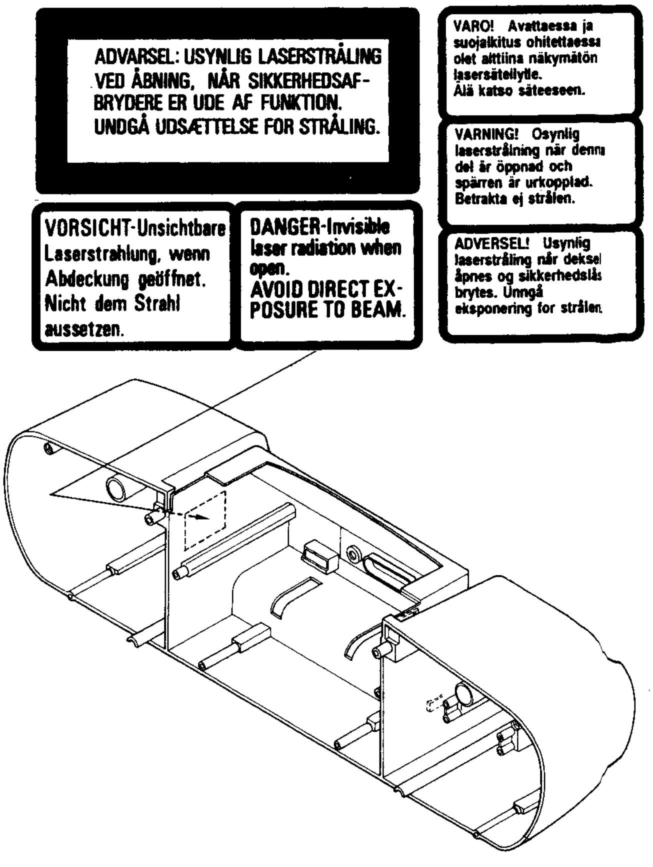
Die strahlung an der lasereinheit ist ungefährlich, wenn folgende punkte beachtet werden:

1. Die lasereinheit nicht zerlegen, da die strahlung an der freigelegten laserdiode gefährlich ist.
2. Den werksseitig justierten einstellregler der lasereinreit nicht verstellen.
3. Nicht mit optischen instrumenten in die fokussierlinse blicken.
4. Nicht über längere zeit in die fokussierlinse blicken.



CLASS 1
LASER PRODUCT

LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT



ADVARSEL: USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAF-BRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.

VARO! Avattaessa ja suojalkitus ohitettaessa olet alttiina näkymätön lasersäteilylle. Älä katso säteeseen.

VARNING! Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

VORSICHT-Unsichtbare Laserstrahlung, wenn Abdeckung geöffnet. Nicht dem Strahl aussetzen.

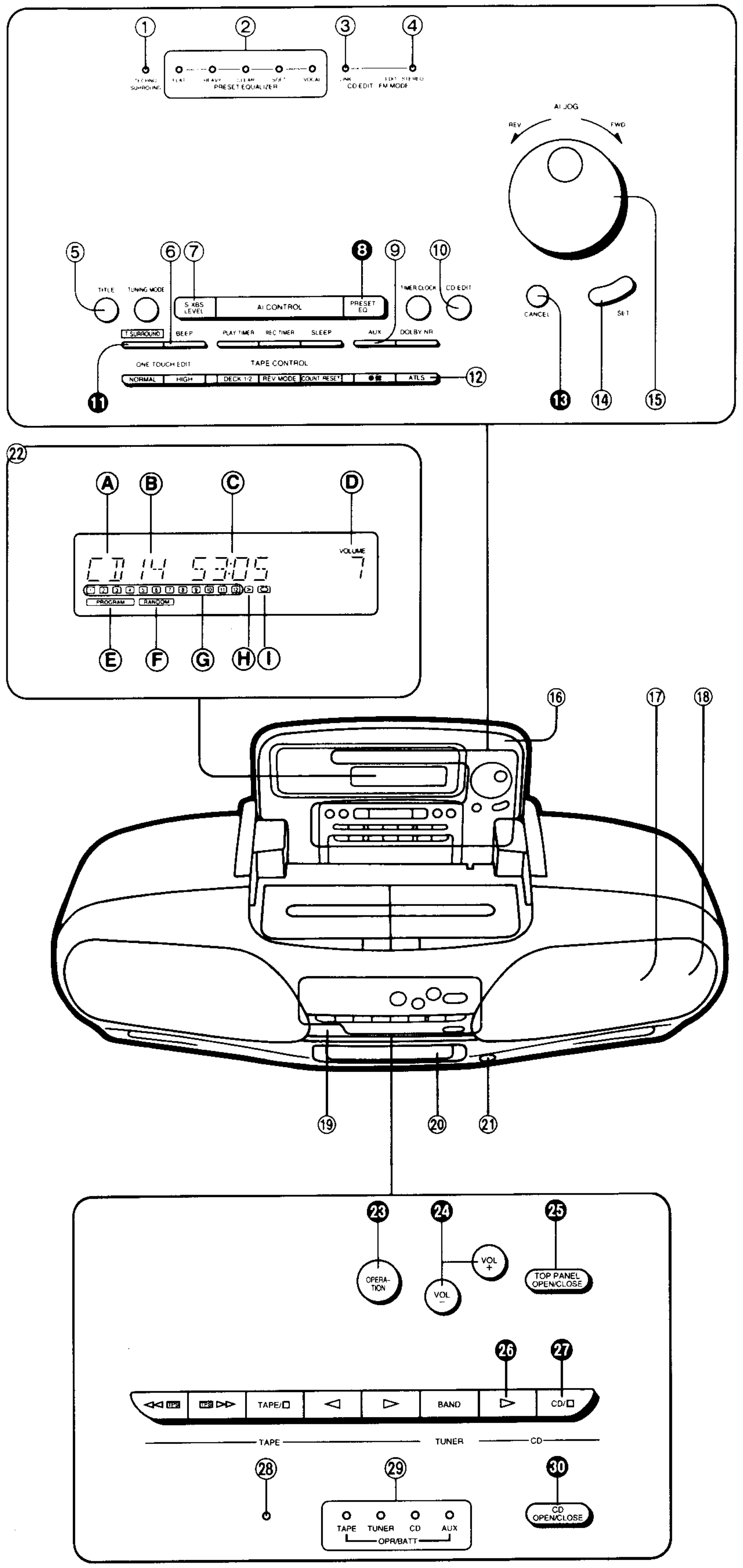
DANGER-Invisible laser radiation when open. AVOID DIRECT EXPOSURE TO BEAM.

ADVERSEL! Usynlig laserstråling når deksel åpnes og sikkerhedslås brytes. Unngå eksponering for strålen.

■ LOCATION OF CONTROLS

The functions indicated by the numbers with black back ground (for example ❽) can also be activated from the remote control transmitter. (See page 5.)

•CD/GENERAL CONTROLS


① ② ③ ④
TECHNO SURROUND
PRESET EQUALIZER
CD EDIT FM MODE
AI JOG
REV
FWD
⑤ ⑥ ⑦ ❽ ⑨ ⑩
TITLE
TUNING MODE
S-XBS LEVEL
AI CONTROL
PRESET EQ
TIMER CLOCK
CD EDIT
CANCEL
SET
T-SURROUND
BEEP
PLAY TIMER
REC TIMER
SLEEP
AUX
DOLBY NR
ONE TOUCH EDIT
TAPE CONTROL
NORMAL
HIGH
DECK 1/2
REV MODE
COUNT RESET
ATLS
⓫ ⑫ ⓭ ⑭ ⑮
㉒
Ⓐ Ⓑ Ⓒ Ⓓ
CD 14 53:05
VOLUME
7
PROGRAM
RANDOM
Ⓔ Ⓕ Ⓖ Ⓗ Ⓘ
⑯ ⑰ ⑱
⑲ ⑳ ㉑
㉓ ㉔ ㉕
OPERATION
VOL
TOP PANEL OPEN/CLOSE
㉖ ㉗
TAPE/□
BAND
CD/□
TAPE
TUNER
CD
㉘ ㉙ ㉚
TAPE TUNER CD AUX
OPR/BATT
CD OPEN/CLOSE

① **Surround indicator (TECHNO SURROUND)**

② **Preset equalizer mode indicator (PRESET EQUALIZER)**

③ **Link edit indicator (LINK)**

④ **CD edit/stereo indicator (EDIT/STEREO)**

⑤ **Title button (TITLE)**

⑥ **Beep sound button (BEEP)**
The beep sound (beep) will be emitted each time the operation button is pressed. The beep function can be turned on and off by pressing this button.

⑦ **Super extra bass system button (S-XBS LEVEL)**

❽ **Preset equalizer button (PRESET EQ)**

⑨ **Aux button (AUX)**

⑩ **Compact disc edit button (CD EDIT)**
Press this button to select the desired edit mode.

⓫ **Surround function button (T-SURROUND)**

⑫ **Automatic tape level setting button (ATLS)**
Press this button to begin the recording from a CD.

⓭ **Cancel button (CANCEL)**

⑭ **SET button (SET)**

⑮ **Jog dial (AI JOG)**

⑯ **Top panel**

⑰ **Speakers [Woofer] (10 cm, 2.7Ω)**

⑱ **Speakers [Squawker Tweeter] (8 cm, 8Ω)**

⑲ **Remote control sensor**

⑳ **Disc tray**

㉑ **Headphones jack (PHONES) (∅3.5, 32Ω)**

㉒ **Display section**
A: CD mode indicator
B: Track display
C: Playing time display
D: Volume level display (VOLUME)
E: Program indicator (PROGRAM)
F: Random indicator (RANDOM)
G: Music matrix
H: Over mark indicator (▷)
I: Repeat indicator (⟲)

㉓ **Operation switch (OPERATION, OFF/ON)**

㉔ **Volume control (VOL)**

㉕ **Top panel open/close button (TOP PANEL OPEN/CLOSE)**

㉖ **Play button (▷)**
Press this button to start the disc play.

㉗ **CD mode/stop button (CD/□)**
Press this button to listen to the CD or to stop the CD playing.

㉘ **AC connection indicator**
While the AC mains supply is used, it lights as an AC connection indicator.

㉙ **Play mode/operation/battery check indicators**
It functions as a battery check indicator when the unit is operated on batteries.

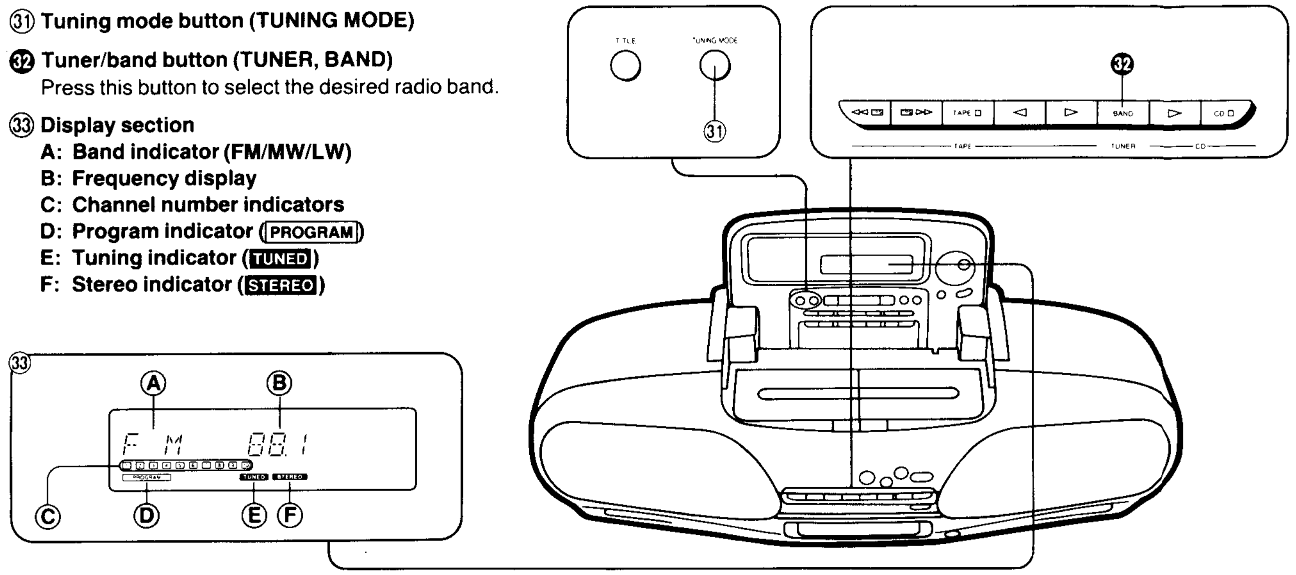
㉚ **CD open/close button (CD OPEN/CLOSE)**

•TUNER CONTROLS

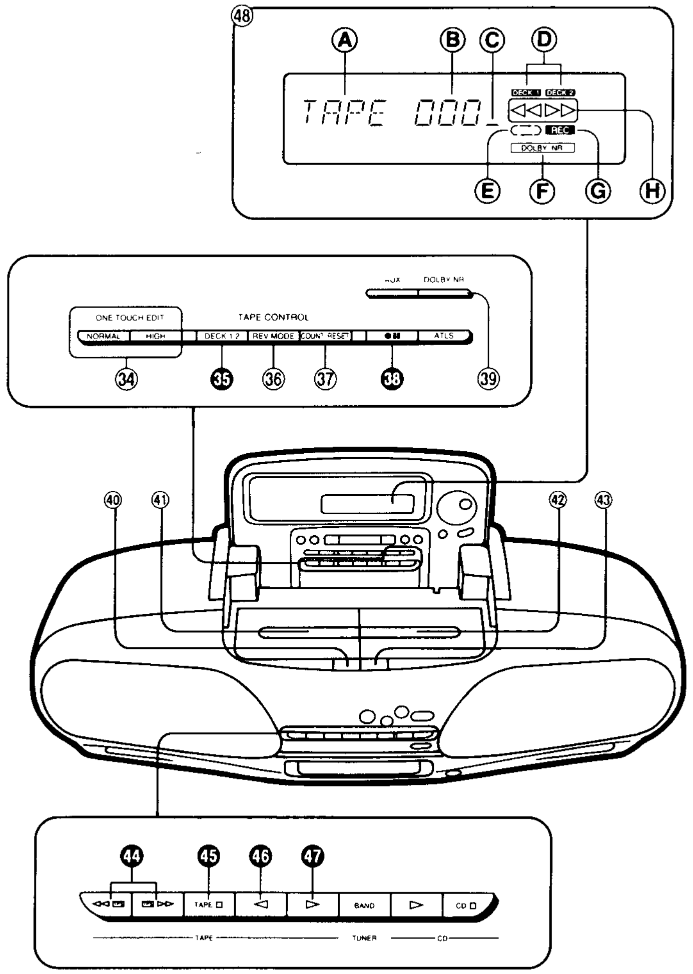
㉛ **Tuning mode button (TUNING MODE)**

㉜ **Tuner/band button (TUNER, BAND)**
Press this button to select the desired radio band.

㉝ **Display section**
A: Band indicator (FM/MW/LW)
B: Frequency display
C: Channel number indicators
D: Program indicator (PROGRAM)
E: Tuning indicator (TUNED)
F: Stereo indicator (STEREO)


TITLE
TUNING MODE
㉛
㉜
TAPE/□
BAND
TAPE
TUNER
CD
㉝
Ⓐ Ⓑ
FM 88.1
PROGRAM
TUNED
STEREO
Ⓒ Ⓓ Ⓔ Ⓕ

•DECK CONTROLS


㊽
Ⓐ Ⓑ Ⓒ Ⓓ
TAPE 000
DECK 1
DECK 2
REC
DOLBY NR
Ⓔ Ⓕ Ⓖ Ⓗ
ONE TOUCH EDIT
TAPE CONTROL
NORMAL
HIGH
DECK 1/2
REV MODE
COUNT RESET
ATLS
DOLBY NR
㉞ ㉟ ㊱ ㊲ ㊳ ㊴
㊵ ㊶ ㊷ ㊸
㊹ ㊺ ㊻ ㊼
TAPE/□
BAND
CD/□
TAPE
TUNER
CD

㉞ **Edit recording buttons (ONE TOUCH EDIT)**
Press one of these buttons to start the synchronized edit recording.

㉟ **Deck 1/2 selector (DECK 1/2)**
Press this button to select the operation deck (deck 1 or 2).

㊱ **Reverse mode select button (REV MODE)**

㊲ **Counter reset button (COUNT RESET)**
Press this button to reset the tape counter.

㊳ **Rec-pause button (● ❚❚)**

㊴ **Dolby NR button (DOLBY NR)**

㊵ **Deck 1 cassette eject button (⏏ EJECT)**

㊶ **Deck 1 cassette compartment cover**

㊷ **Deck 2 cassette compartment cover**

㊸ **Deck 2 cassette eject button (⏏ EJECT)**

㊹ **Fast/tape program sensor buttons (◁◁ PS ▷▷)**
Press one of these buttons to fast forward or rewind the tape during stop condition, or to skip to the beginning of the next or present tune during playback.

㊺ **Tape mode/stop button (TAPE/□)**
Press this button to listen to tapes or to stop the tape.

㊻ **Reverse-side playback button (◁)**
Press this button to begin the playback (or recording) from the reverse side of the tape.

㊼ **Forward-side playback button (▷)**
Press this button to begin the playback (or recording) from the forward side of the tape.

㊽ **Display section**
A: Tape mode indicator (TAPE)
B: Tape counter
C: Running indicator
D: Deck 1/2 indicators (DECK 1 DECK 2)
E: Reverse mode indicator (⊂⊃)
F: Dolby NR indicator (DOLBY NR)
G: Recording indicator (REC)
H: Tape direction indicators (◁◁ ▷▷)

•TIMER CONTROLS

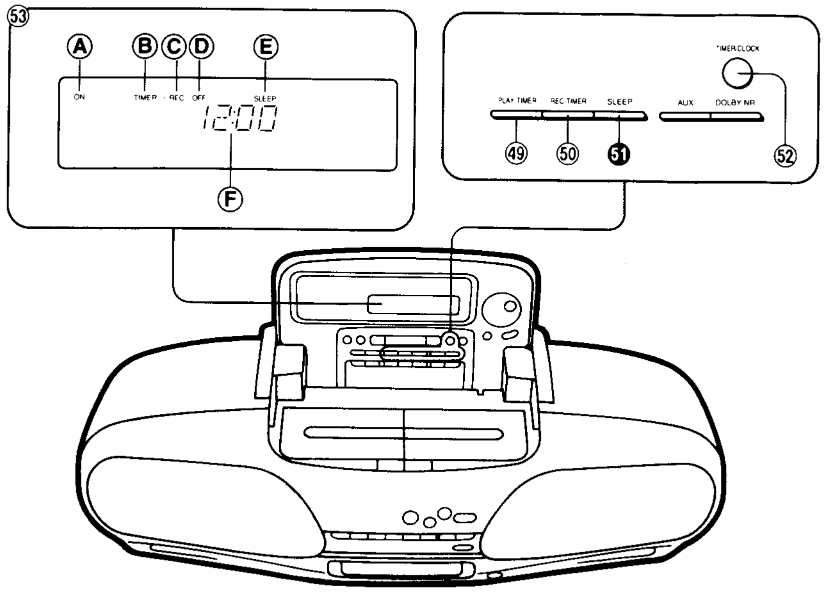
㊾ Timer play button (PLAY-TIMER)
Press this button for timer play.

㊿ Timer recording button (REC-TIMER)
Press this button for timer recording.

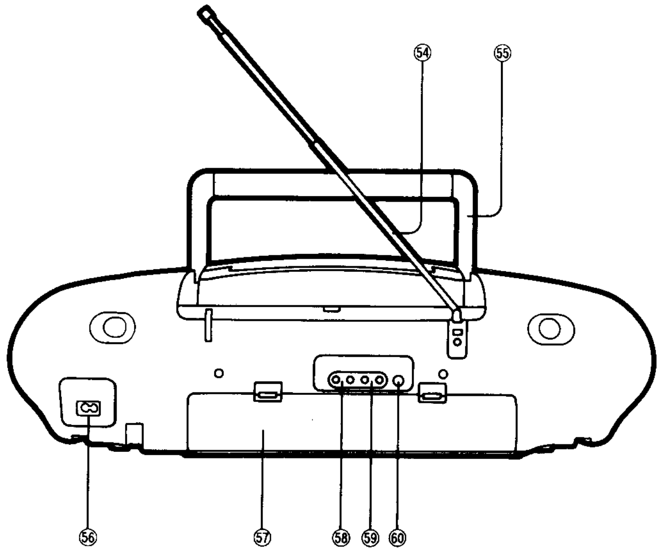
(51) Sleep button (SLEEP)
Press this button when you wish to fall asleep while listening to music.

(52) Timer clock button (TIMER/CLOCK)

(53) Display section
- A: Timer ON indicator (ON)
- B: Timer play indicator (TIMER)
- C: Timer recording indicator (TIMER-REC)
- D: Timer OFF indicator (OFF)
- E: Sleep timer indicator (SLEEP)
- F: Time display


(53)
Ⓐ
Ⓑ Ⓒ Ⓓ
Ⓔ
ON
TIMER
REC
OFF
SLEEP
12:00
Ⓕ
TIMER/CLOCK
PLAY TIMER
REC TIMER
SLEEP
AUX
DOLBY NR
㊾
㊿
(51)
(52)

•REAR PANEL SECTION


(54)
(55)
(56)
(57)
(58)
(59)
(60)

- (54) **Telescopic antenna**
- (55) **Handle**
- (56) **AC socket (AC IN~)**
- (57) **Battery compartment cover**
- (58) **Aux input jacks (AUX IN) (200 mV, 4.7 kΩ)**
- (59) **CD output jacks (CD OUT) (1 V, CD 0 dB)**
- (60) **Mixing microphone jack (MIX MIC) (Ø3.5, 200~600Ω)**

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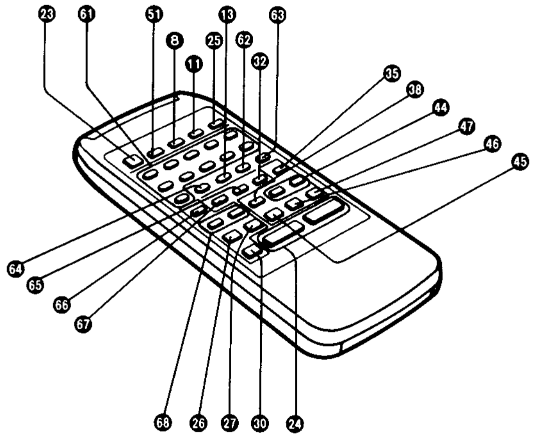
(67) Display button (DISPLAY)
Press this button when you wish to confirm the present time while listening to CD, radio and tape.

(68) Skip/search buttons (⏮/◀◀, ▶▶/⏭)
Press one of these buttons to skip (backward or forward) the tracks, or to search (backward or forward) the desired portion of the disc.

•REMOTE CONTROL OPERATION


(23)
(61)
(51)
(8)
(25)
(13)
(62)
(11)
(32)
(63)
(35)
(38)
(44)
(47)
(46)
(45)
(64)
(65)
(66)
(67)
(68)
(26)
(27)
(30)
(24)

(61) Numeric buttons (1–10/0, +10)
These buttons are used to specify the CD's track (1–10, +10), and select the preset memory channel of the tuner (1–10).

(62) Random button (RANDOM)
Press this button to let the microcomputer make a random selection of the sequence.

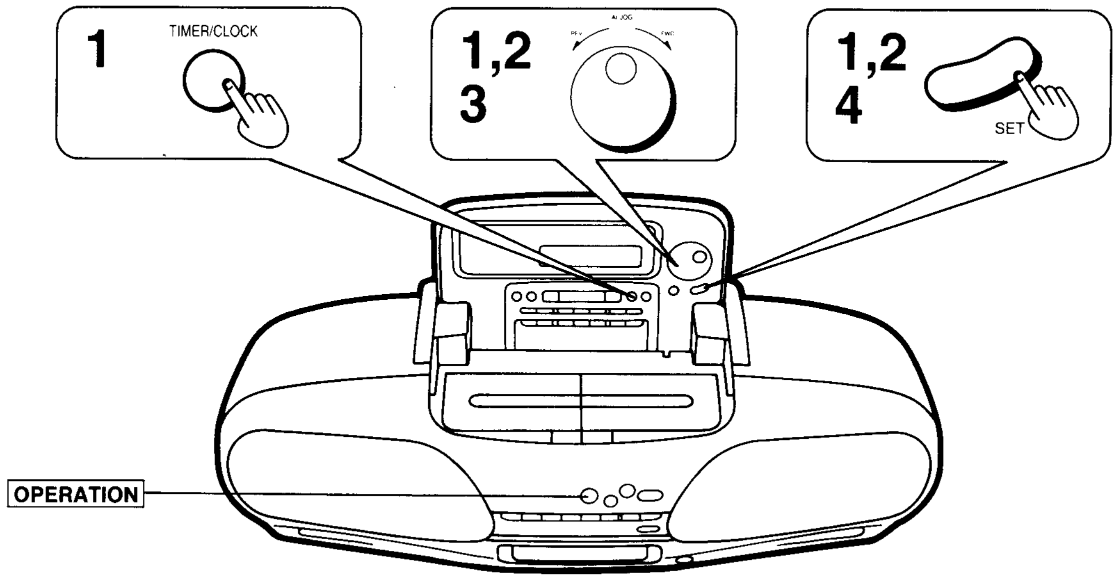
(63) Repeat button (REPEAT)
Press this button to activate the repeat mode. The repeat indicator will appear.

(64) Program button (PROGRAM)
Press this button for CD program-play and for preset memory of the tuner.

(65) FM mode/beat proof button (FM MODE/B.P)
The functions of this button change according to the selected radio band.
MW/LW: Beat proof
(for recording from the MW/LW radio)
FM: MONO/STEREO

(66) Pause button (❚❚)
Press this button to stop the disc temporarily.

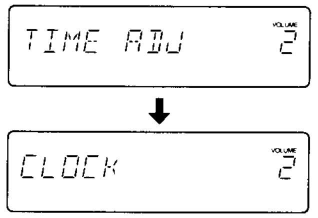
■ TIME ADJUSTING


1
TIMER/CLOCK
1,2
3
JOG
REV
FWD
1,2
4
SET
OPERATION

Before operation, press the operation switch to turn on the unit.

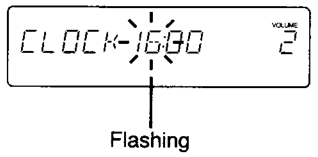
For example:
To set the time at 16:20.

1 Press the timer/clock button, and then turn the jog dial to select the "CLOCK" mode.
The display will change to "P-TIMER"–"R-TIMER"–"SLEEP"–"CLOCK".


TIME ADJ
VOLUME
2
CLOCK
VOLUME
2

Press the SET button.

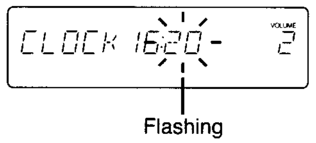
2 Turn the jog dial to adjust the correct hour display.
FWD: Increase.
REV: Decrease.


CLOCK-16:30
VOLUME
2

Flashing

Press the SET button.

3 Turn the jog dial to adjust the correct minute display.
Note that the minute "00" display appears following "59", but the hour display is not changed.


CLOCK 16:20-
VOLUME
2

Flashing

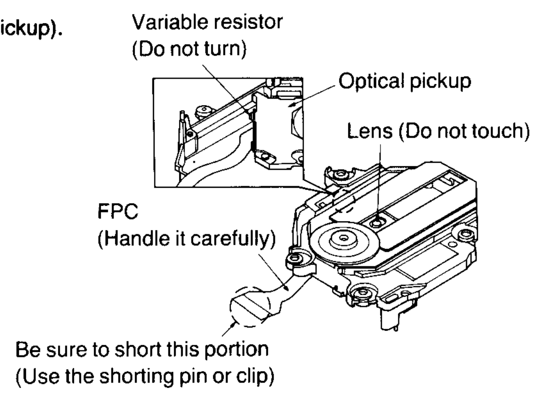
4 Press the SET button to finish setting the time.
The display will change to the previous display.

When the SET button is pressed, the clock is reset to "0" second.
When a wrong operation occurs while operations of steps 1~3, press the cancel button, then the unit is returned to the previous mode.

■ HANDLING PRECAUTIONS FOR TRAVERSE DECK

The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body.

So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).


Variable resistor (Do not turn)
Optical pickup
Lens (Do not touch)
FPC (Handle it carefully)
Be sure to short this portion (Use the shorting pin or clip)

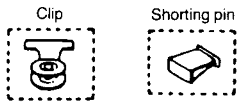
•Handling of traverse deck (optical pickup)

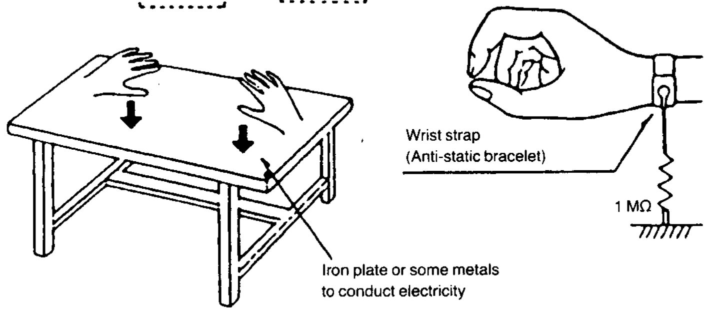
1. Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.
2. To prevent the breakdown of the laser diode, an anti-static shorting pin is inserted into the flexible board (FPC board). When removing or connecting the short pin, finish the job in as short time as possible.
3. Take care not to apply excessive stress to the flexible board (FPC board).
4. Do not turn the variable resistor (laser power adjustment). It has already been adjusted.

•Grounding for electrostatic breakdown prevention

1. Human body grounding
   Use the anti-static wrist strap to discharge the static electricity from your body.
2. Work table grounding
   Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

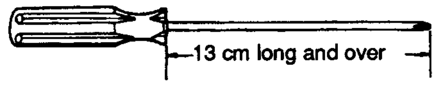
Caution:
The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).


Clip
Shorting pin

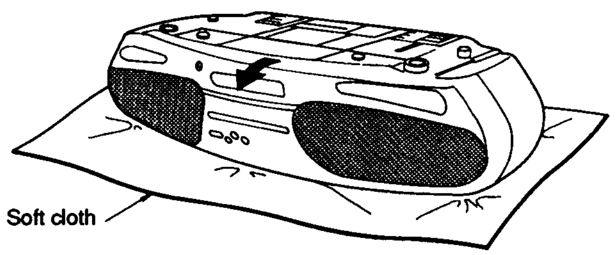

Wrist strap (Anti-static bracelet)
1 MΩ
Iron plate or some metals to conduct electricity

■ DISASSEMBLY INSTRUCTIONS

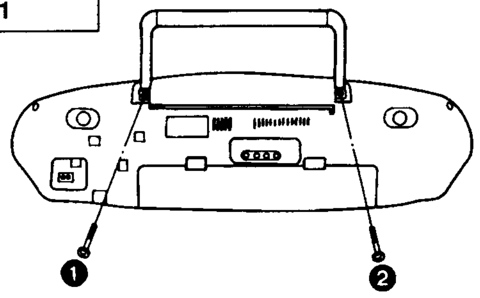
- Use a phillips screwdriver whose blade is 13 cm long and over to remove screws fixing the rear cabinet.


13 cm long and over

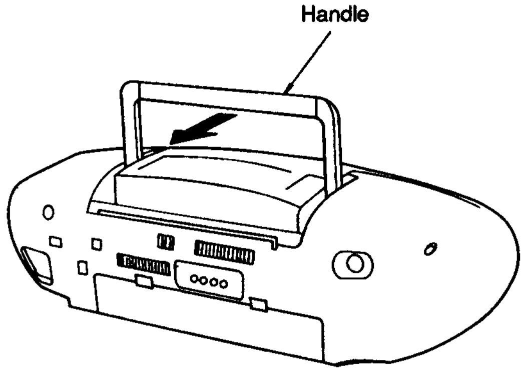
- Be sure to place the unit on soft cloth or similar material to prevent scratches when disassembling it.



Ref. No. 1 — **Removal of the Handle**
Procedure 1

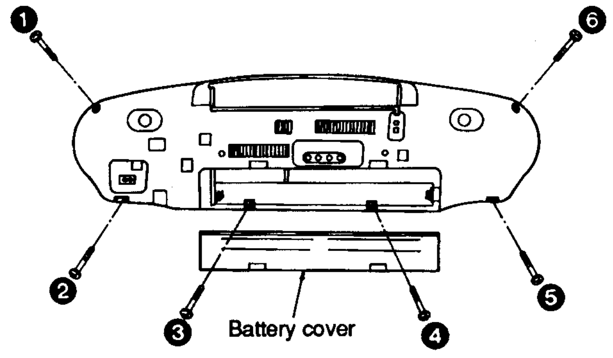


1. Remove 2 screws (❶, ❷).



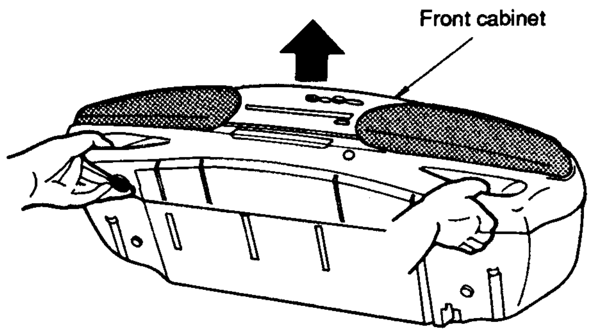
2. Slide out the handle in the direction of the arrow.

Ref. No. 2 — **Removal of the Front Cabinet**
Procedure 1→2

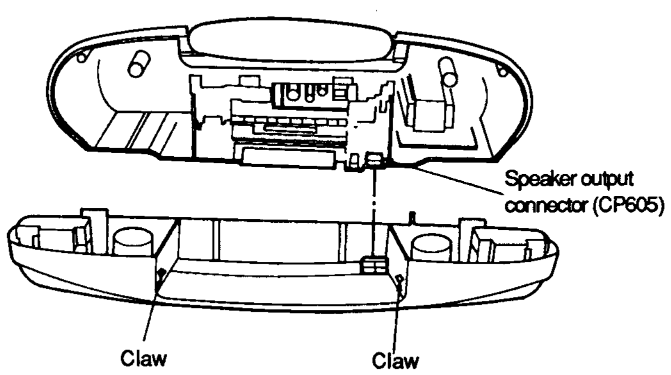

❶
❷
❸
❹
❺
❻
Battery cover

1. Remove the battery cover.
2. Remove 6 screws (❶~❻).

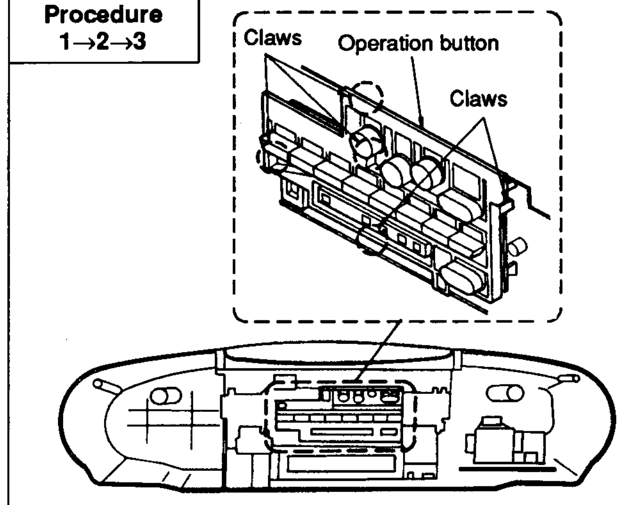
Notes:
1. Note that the two claws (shown in the right figure) hook the front cabinet when removing the front cabinet.
2. Be careful not to bend pins of the speaker output connector (CP605).


Front cabinet

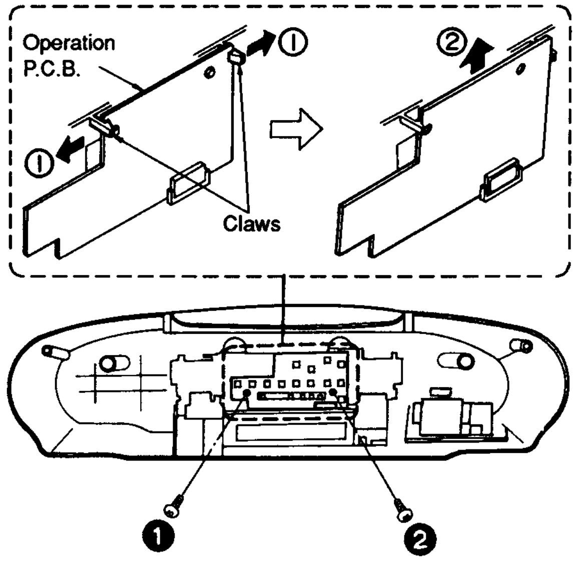
3. Remove the front cabinet.


Speaker output connector (CP605)
Claw
Claw

Ref. No. 3 — **Removal of the Operation P.C.B.**
Procedure 1→2→3

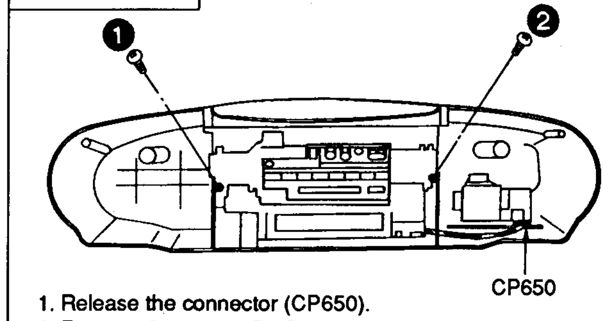

Claws
Operation button
Claws

1. Release 5 claws.
2. Remove the operation button.

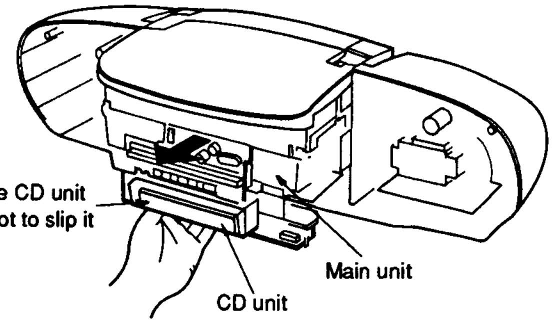

Operation P.C.B.
①
②
Claws
❶
❷

3. Remove 2 screws (❶, ❷).
4. Remove 2 claws in the direction of arrow ①.
5. Remove the operation P.C.B. in the direction of arrow ②.

Ref. No. 4 — **Removal of the Main Unit**
Procedure 1→2→4



1. Release the connector (CP650).
2. Remove 2 screws (❶, ❷).


Main unit
CD unit

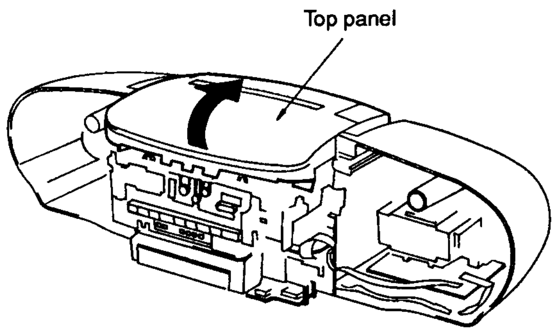
Note:
Hold the CD unit so as not to slip it down.

3. Since the CD unit is not mounted on the main unit, be sure to hold the CD unit so as not to slip it down and remove it from rear cabinet as shown above.

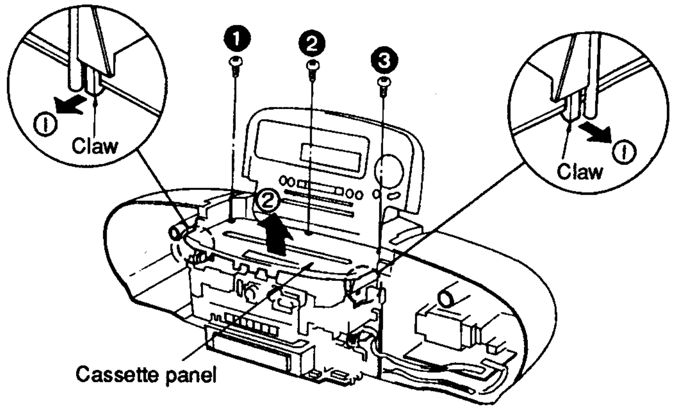
Ref. No. 5

Removal of the Cassette Panel

Procedure
1→2→5



1. Open the top panel.

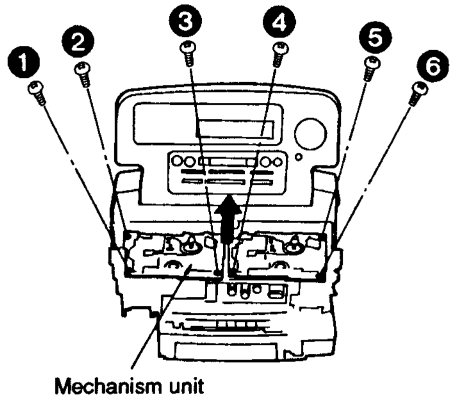

❶
❷
❸
①
Claw
Claw
①
②
Cassette panel

2. Remove 3 screws (❶~❸).
3. Release 2 claws in the direction of arrow ①.
4. Remove the cassette panel in the direction of arrow ②.

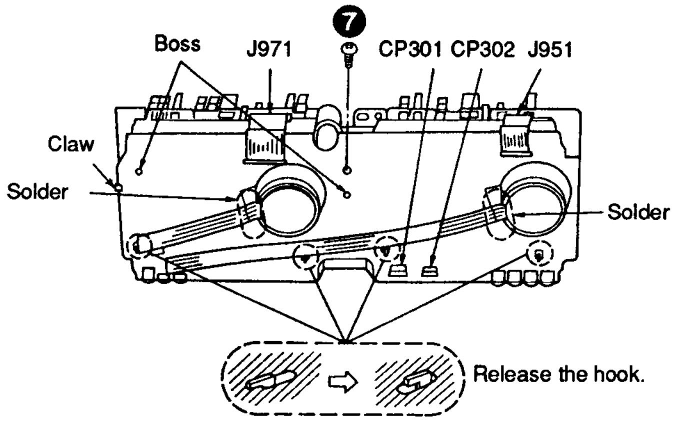
Ref. No. 6

Removal of the Mechanism Unit

Procedure
1→2→5→6


❶
❷
❸
❹
❺
❻
Mechanism unit

1. Remove 6 screws (❶~❻).
2. Remove the mechanism unit.


Boss
J971
❼
CP301
CP302
J951
Claw
Solder
Solder
Release the hook.

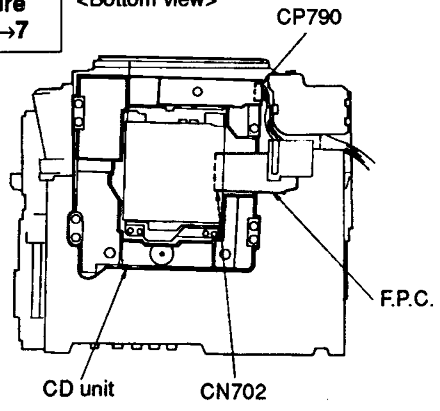
3. Release 4 connectors (J951,J971, CP301, CP302).
4. Resolder 2 solders.
5. Remove the screw (❼).
6. Release the claw.
7. Release 2 bosses.
8. Release 4 hooks.

Ref. No. 7

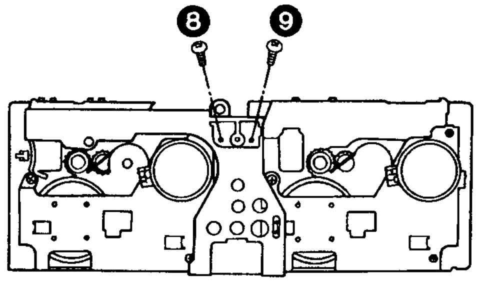
Removal of the CD Unit

Procedure
1→2→4→7

<Bottom view>


CP790
F.P.C.
CD unit
CN702

1. Release the connector (CP790).
2. Release the connector (CN702).
3. Remove the CD unit.

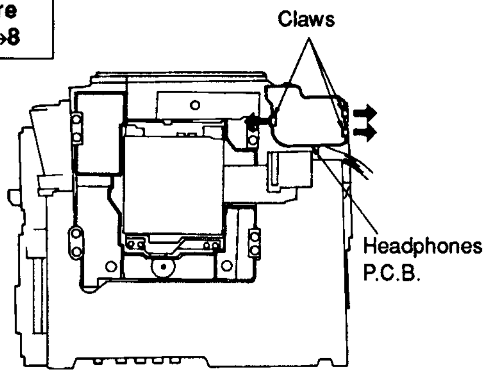


9. Remove 2 screws (❽, ❾).

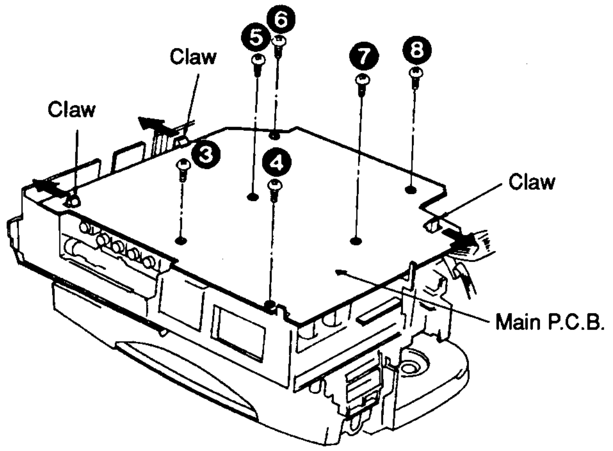
Ref. No. 8

Removal of the Headphones P.C.B.

Procedure
1→2→4→8


Claws
Headphones P.C.B.

- Release 3 claws in the direction of arrows.

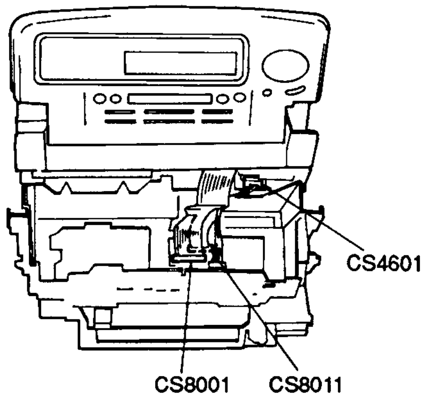

❺
❻
❼
❽
Claw
Claw
❸
❹
Claw
Main P.C.B.

4. Remove 6 screws (❸~❽).
5. Release 3 claws in the direction of arrows.

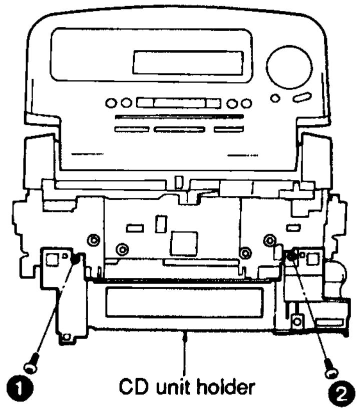
Ref. No. 9

Removal of the Main P.C.B.

Procedure
1→2→4→5→
6→7→8→9


CS4601
CS8001
CS8011

1. Release 3 connectors (CS4601, CS8001, CS8011).

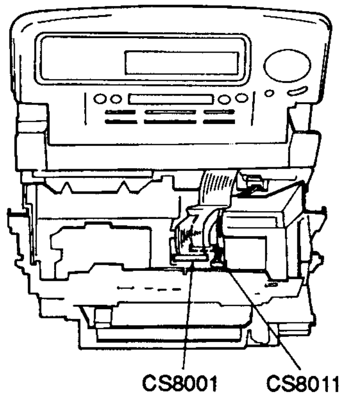

❶
CD unit holder
❷

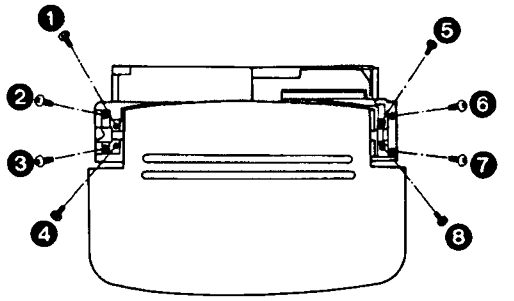
2. Remove 2 screws (❶, ❷).
3. Remove the CD unit holder.

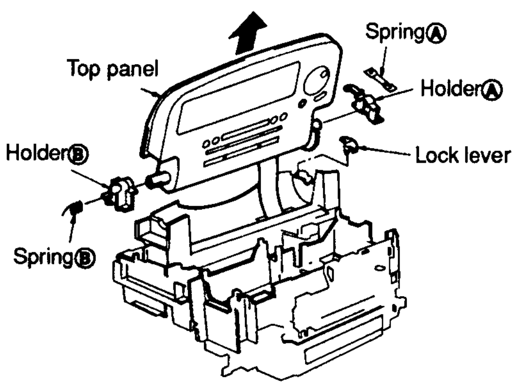
Ref. No. 10

Removal of the Top Panel

Procedure
1→2→4→
5→6→10


CS8001
CS8011



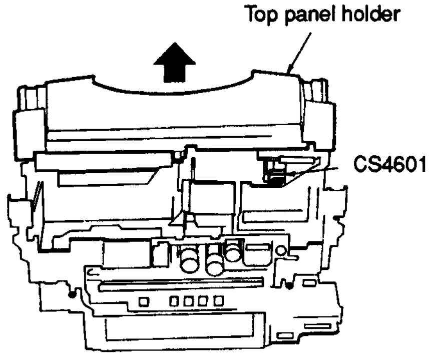

SpringⒶ
Top panel
HolderⒶ
HolderⒷ
Lock lever
SpringⒷ

1. Release 2 connectors (CS8001, CS8011).
2. Remove 8 screws (❶~❽).
3. Remove the spring Ⓐ and holder Ⓐ.
4. Remove the top panel in the direction of arrow.
5. Remove the spring Ⓑ.
6. Remove the holder Ⓑ.
7. Remove the lock lever.

Ref. No. 11

Removal of the Top Panel Holder

Procedure
1→2→4→5→6→10→11

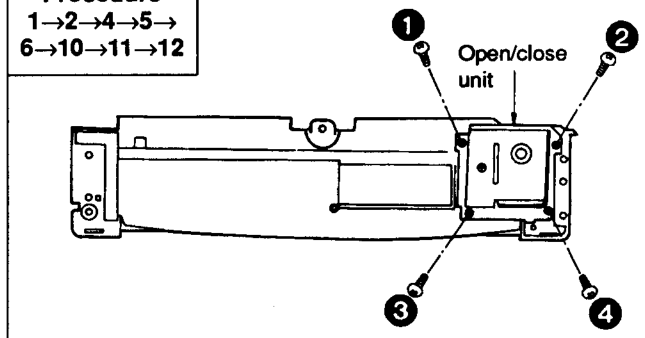

Top panel holder
CS4601

1. Release the connector (CS4601).
2. Remove the top panel holder in the direction of arrow.

Ref. No. 12

Removal of the Open/Close Unit

Procedure
1→2→4→5→6→10→11→12

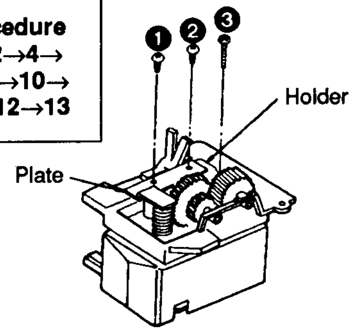

❶
❷
Open/close unit
❸
❹

- Remove 4 screws (❶~❹).

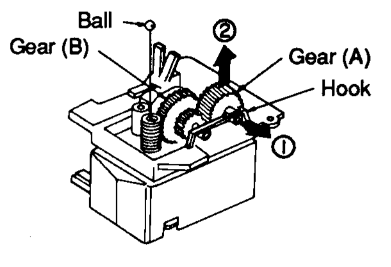
Ref. No. 13

Disassemble of the Open/Close Unit

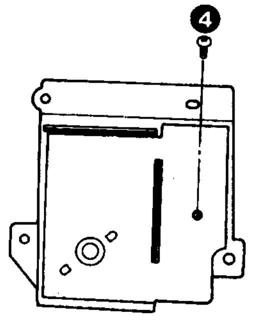
Procedure
1→2→4→5→6→10→11→12→13


❶
❷
❸
Holder
Plate

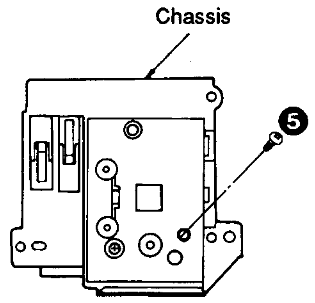
1. Remove 3 screws (❶~❸).
2. Remove the holder and plate.


Ball
Gear (B)
②
Gear (A)
Hook
①

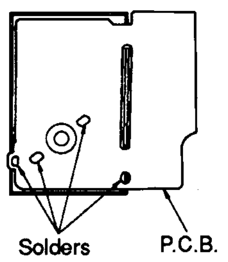
3. Remove the ball.
4. Release the hook in the direction of arrow ① and remove the gear (A) in the direction of the arrow ②.
5. Remove the gear (B).



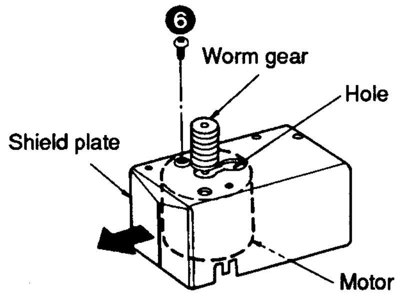
6. Remove the screw (❹).



7. Remove the screw (❺).
8. Remove the chassis.


Solders
P.C.B.

9. Resolder 4 solders.
10. Remove the P.C.B.

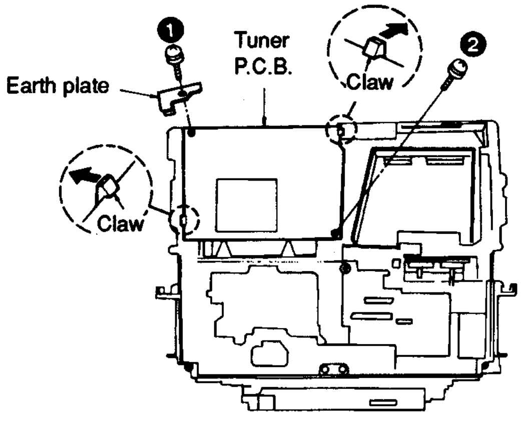

❻
Worm gear
Hole
Shield plate
Motor

11. Remove the screw (❻).
12. Remove the shield plate in the direction of the arrow ③.

Ref. No. 14

Removal of the Tuner P.C.B.

Procedure
1→2→4→5→6→10→11→14

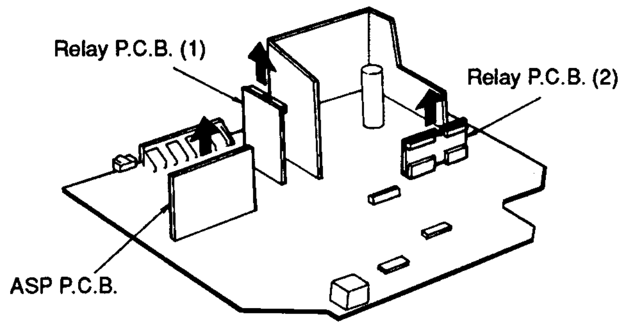

❶
Tuner P.C.B.
Claw
❷
Earth plate
Claw

1. Remove 2 screws (❶, ❷).
2. Remove the earth plate.
3. Release 2 claws in the direction of arrow.

Ref. No. 15

Removal of the ASP P.C.B. and Relay P.C.B.

Procedure
1→2→4→7→8→9→15

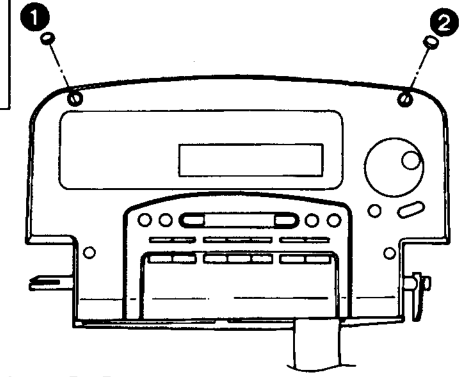

Relay P.C.B. (1)
Relay P.C.B. (2)
ASP P.C.B.

- Pull out 3 P.C.B.s in the direction of the arrow.

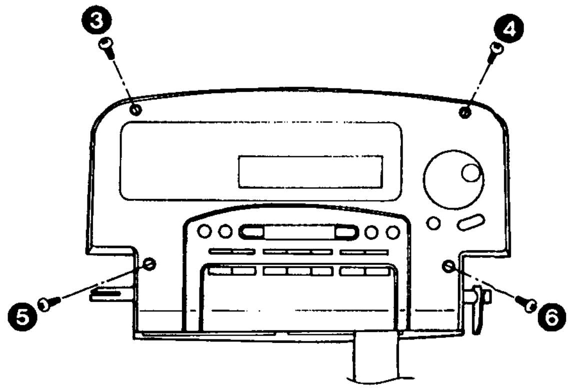
Ref. No. 16

Removal of the Display Panel

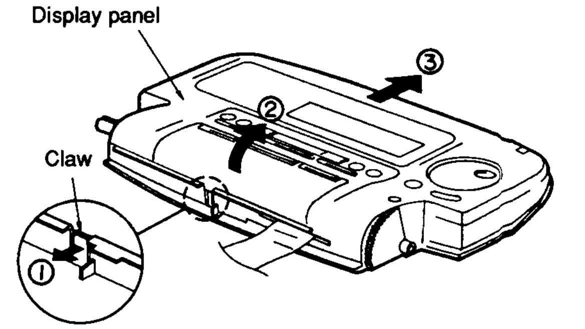
Procedure
1→2→5→6→10→16



1. Remove 2 rubbers (❶, ❷).



2. Remove 4 screws (❸~❻).

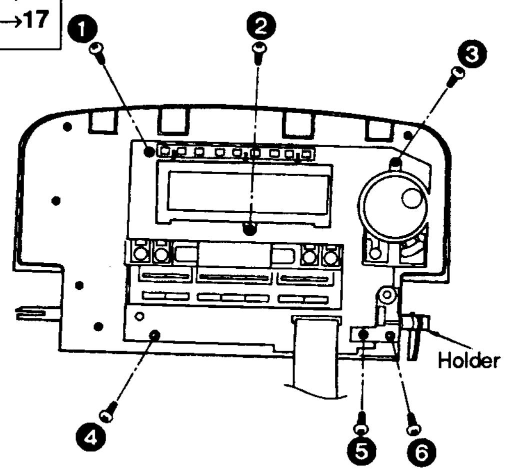

Display panel
③
②
Claw
①

3. Press the claw in the direction of arrow ① and then remove the display panel in the direction of arrow ②.
4. Slide the display panel in the direction of arrow ③.

Ref. No. 17

Removal of the LCD P.C.B.

Procedure
1→2→5→6→10→16→17

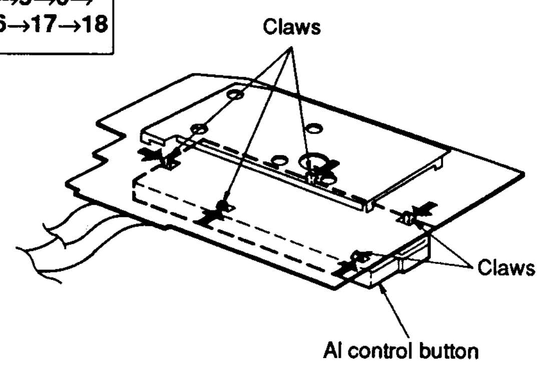

❶
❷
❸
Holder
❹
❺
❻

1. Remove 6 screws (❶~❻).
2. Remove the holder.

Ref. No. 18

Removal of the AL Control Button

Procedure
1→2→5→6→10→16→17→18

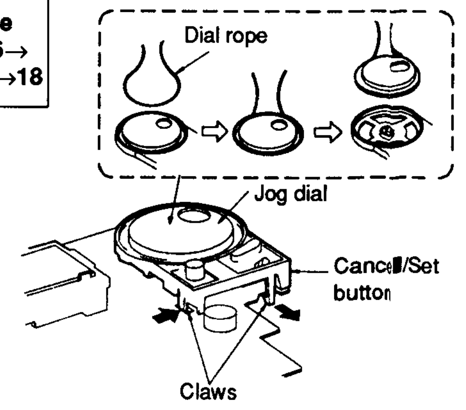

Claws
Claws
Al control button

- Release 5 claws in the direction of arrows.

Ref. No. 19

Removal of the Al Jog Dial and Cancel/Set Button

Procedure
1→2→5→6→10→16→17→18

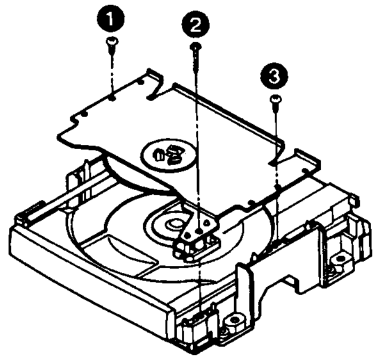

Dial rope
Jog dial
Cancel/Set button
Claws

1. Remove the jog dial.
2. Release 2 claws in the direction of arrows.

Ref. No. 20

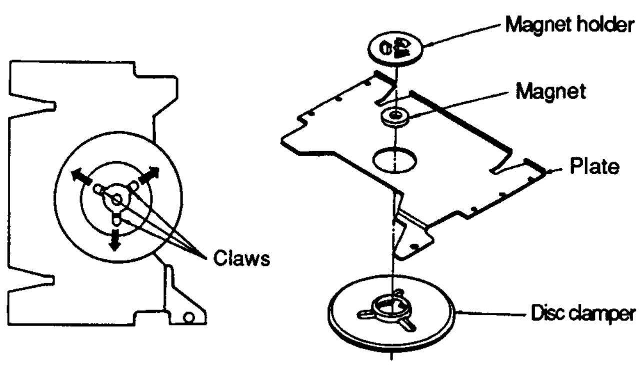
Removal of the Disc Clamper

Procedure
1→2→4
→7→20



• Remove 3 screws (❶-❸).

• Disassembly of the disc clamper

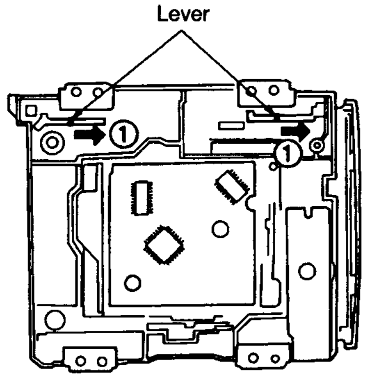

Magnet holder
Magnet
Plate
Claws
Disc clamper

1. Release 3 claws in the direction of arrows.
2. Disassemble the disc clamper as shown above.

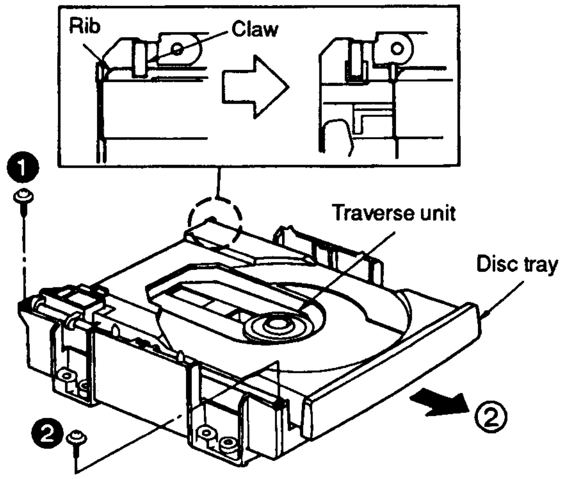
Ref. No. 21

Removal of the Disc Tray

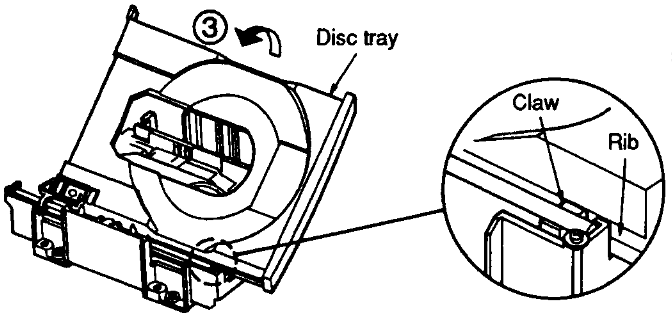
Procedure
1→2→4
7→20→21



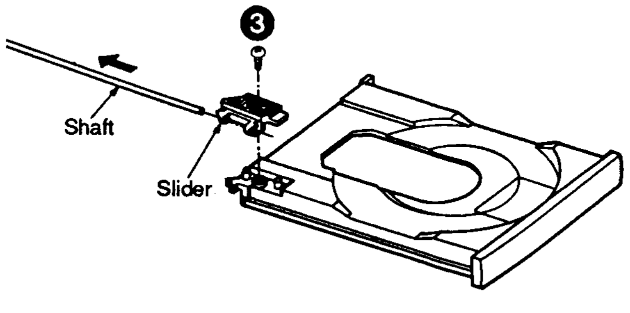
1. Slide the lever fully in the direction of arrow ①.
   (The traverse unit goes down.)


Rib
Claw
❶
Traverse unit
Disc tray
❷
②

2. Move the disc tray slightly in the direction of arrow ② and unfasten the claw and the rib.
3. Remove 2 screws (❶, ❷).


③
Disc tray
Claw
Rib

4. Lift the disc tray in the direction of arrow ③.
5. Unfasten the rib from the claw of the chassis.

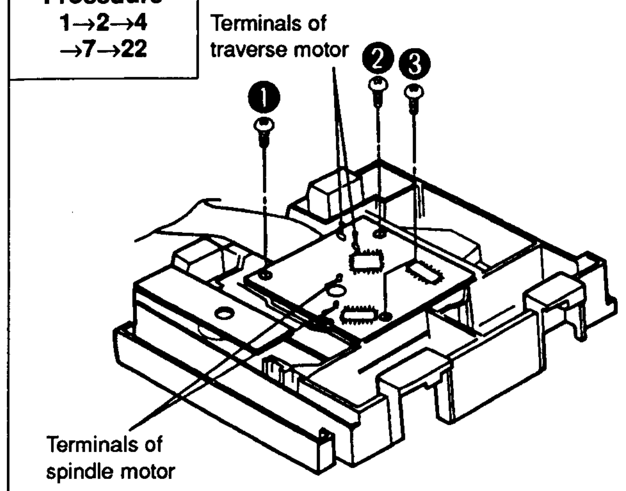

❸
Shaft
Slider

6. Remove the screw (❸).
7. Remove the slider and the shaft.

Ref. No. 22

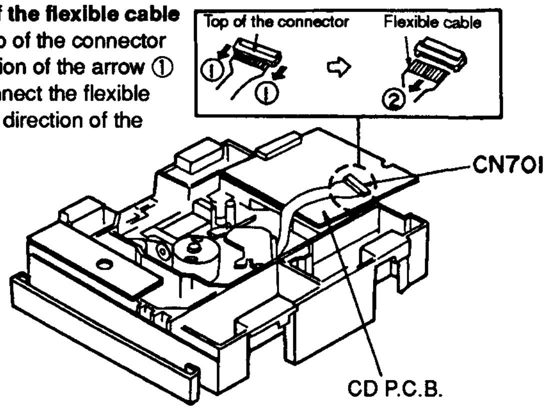
Removal of the CD P.C.B.

Procedure
1→2→4
→7→22


Terminals of traverse motor
❶
❷
❸
Terminals of spindle motor

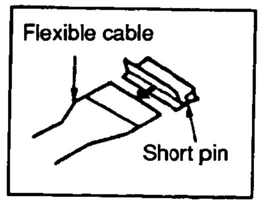
1. Remove the 3 screws (❶-❸).
2. Unsolder the 2 terminals of spindle motor.
3. Unsolder the 2 terminals of traverse motor.

• Removal of the flexible cable
Slide the top of the connector in the direction of the arrow ① and dissconnect the flexible cable in the direction of the arrow ②.


Top of the connector
Flexible cable
①
②
CN701
CD P.C.B.

4. Remove the flexible cable (CN701).

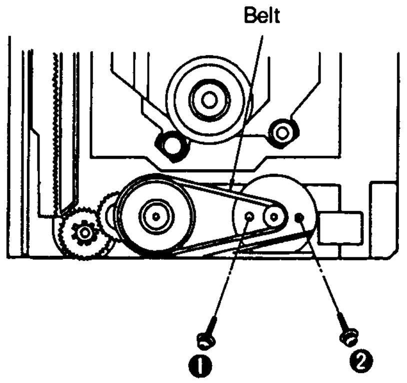
Note:
Insert a short pin into the flexible cable for traverse unit.


Flexible cable
Short pin

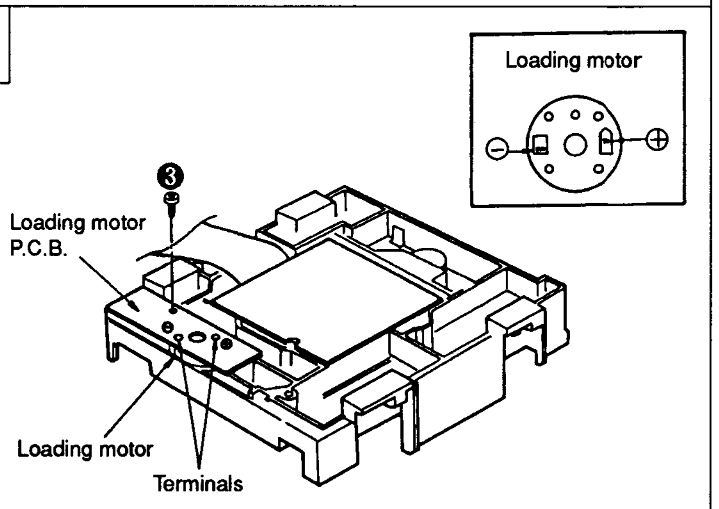
Ref. No. 23

Removal of the Loading Motor P.C.B. and Loading Motor

Procedure
1→2→4→7
→20→21→23



1. Remove the belt.
2. Remove the 2 screws (❶, ❷).

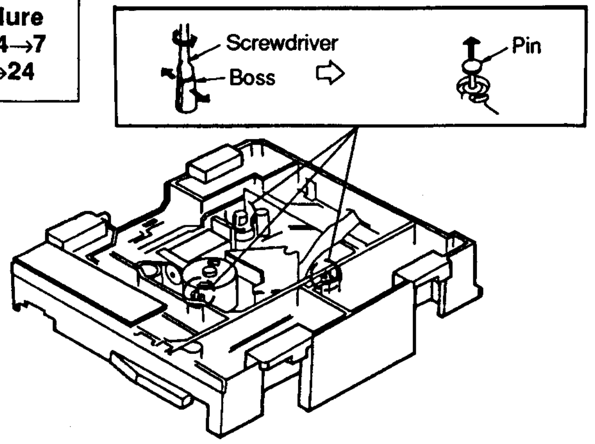

Loading motor
⊖
⊕
❸
Loading motor P.C.B.
Loading motor
Terminals

3. Remove the screw (❸).
4. Unsolder the 2 terminals of loading motor.

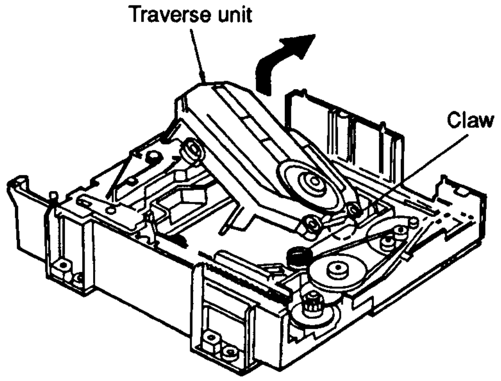
Ref. No. 24

Removal of the Traverse Unit

Procedure
1→2→4→7
→22→24


Screwdriver
Boss
Pin

1. Widen 3 bosses by using a screwdriver and remove 3 pins.

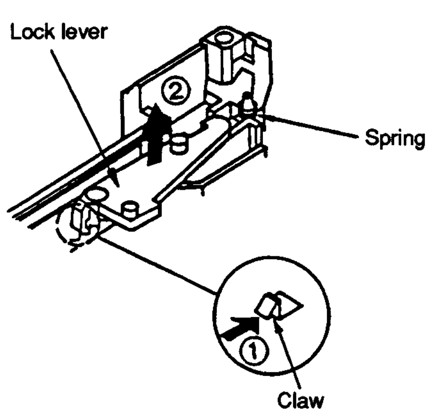

Traverse unit
Claw

2. Release the claw and then remove the traverse unit in the direction of arrow.

Ref. No. 25

Removal of the Lock Lever

Procedure
1→2→4→7→
22→24→25


Lock lever
②
Spring
①
Claw

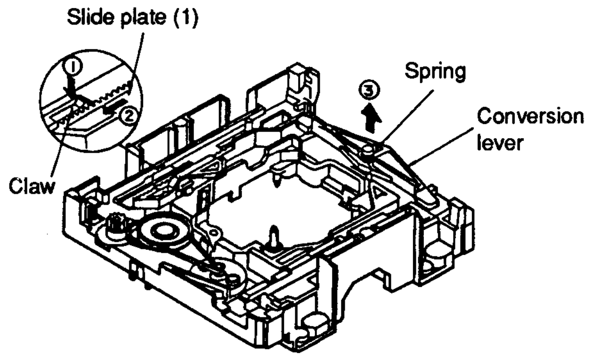
1. Remove the spring.
2. Release the claw in the direction of the arrow ①, and then remove the lock lever in the direction of arrow ②.

Ref. No. 26

Removal of the Conversion Lover

Procedure
1→2→4→7→
22→24→25→26

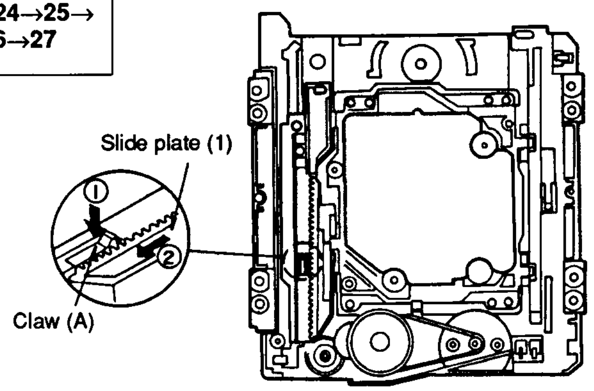
1. Remove the spring.
2. Push the claw in the direction of arrow ①, and then move the slide plate (1) in the direction of arrow ②.
3. Remove the conversion lever in the direction of arrow ③.

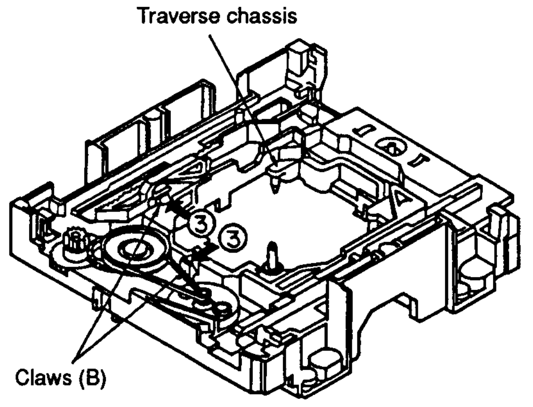

Slide plate (1)
①
②
Claw
③
Spring
Conversion lever

Ref. No. 27

Removal of the Traverse Chassis

Procedure
1→2→4→7→
22→24→25→
26→27


Slide plate (1)
①
②
Claw (A)

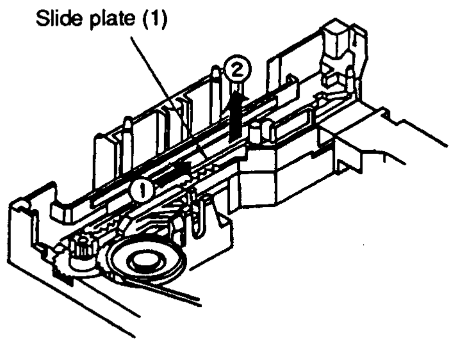

Traverse chassis
③
③
Claws (B)

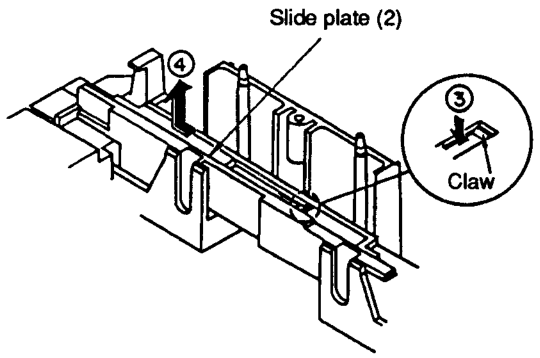
1. Push the claw (A) in the direction of arrow ①, and then move the slide plate (1) in the direction of arrow ②.
2. Push 2 claws (B) in the direction of arrow ③, and then remove the traverse shassis.

Ref. No. 28

Removal of the Slide Plate (1) and Slide Plate (2)

Procedure
1→2→4→7→
22→24→25→
26→27→28


Slide plate (1)
②
①


Slide plate (2)
④
③
Claw

■ Removal of the Slide Plate (1)

- Move the slide plate (1) in the direction of the arrow ①, and remove the slide plate (1) in the direction of the arrow ②.

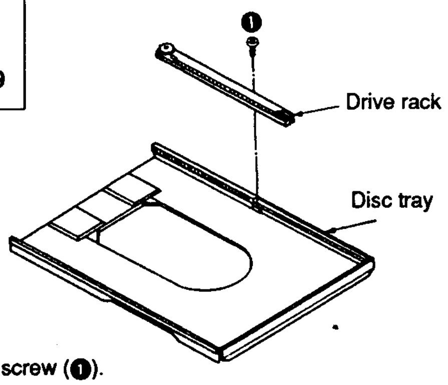
■ Removal of the Slide Plate (2)

- Push the claw in the direction of the arrow ③, and remove the slide plate (2) in the direction of the arrow ④.

Ref. No. 29

Removal of the Drive Rack

Procedure
1→2→4→7
→20→21→29

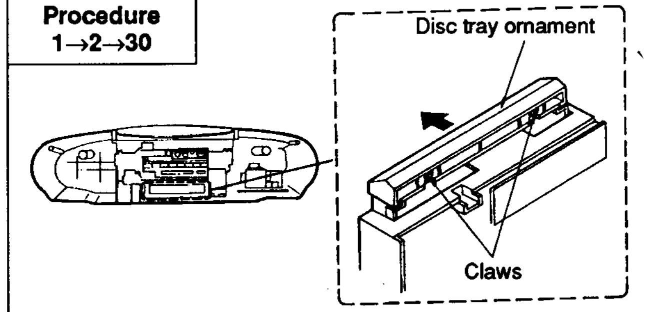

❶
Drive rack
Disc tray

- Remove the screw (❶).

Ref. No. 30

Removal of the Disc Tray Ornament

Procedure
1→2→30


Disc tray ornament
Claws

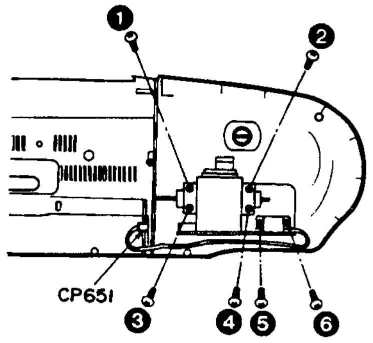
- Remove the disc tray in the direction of arrow by keeping the 2 claws pressed.

Ref. No. 31

Removal of the Power P.C.B.

Procedure
1→2→4→31

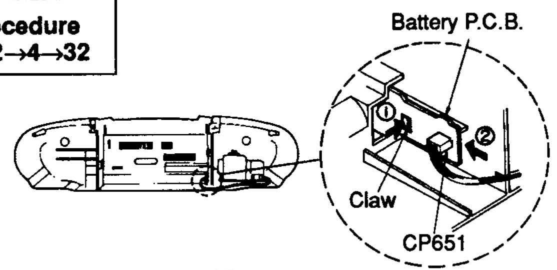
1. Release the connector (CP651).
2. Remove 6 screws (❶~❻).


❶
❷
CP651
❸
❹
❺
❻

Ref. No. 32

Removal of the Battery P.C.B.

Procedure
1→2→4→32

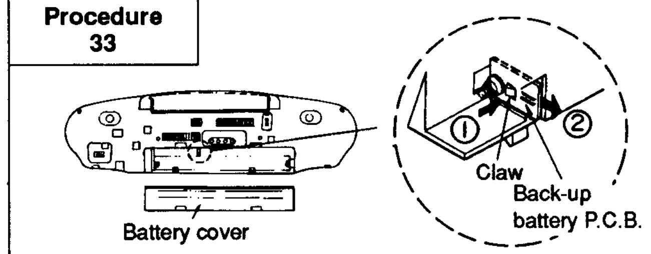

Battery P.C.B.
①
②
Claw
CP651

1. Remove the connector (CP651).
2. Remove the battery P.C.B. in the direction of arrow ② by keeping the claw pressed in the direction of arrow ①.

Ref. No. 33

Removal of the Back-up Battery P.C.B.

Procedure
33

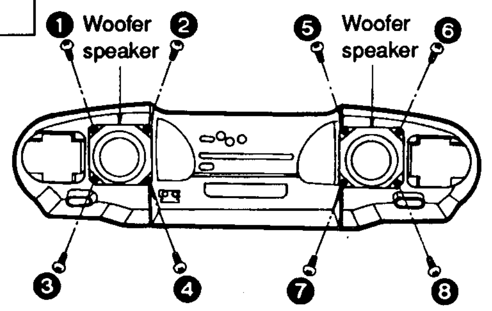

①
②
Claw
Back-up battery P.C.B.
Battery cover

1. Remove the battery cover.
2. Remove the back-up battery P.C.B. in the direction of arrow ② by keeping the claw pressed in the direction of arrow ①.

Ref. No. 34

Removal of the Woofer Speaker

Procedure
1→2→34

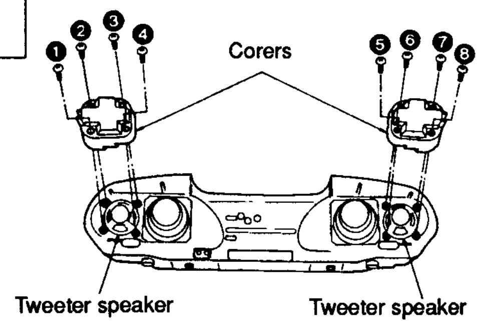

❶ Woofer speaker ❷
❺ Woofer speaker ❻
❸
❹
❼
❽

- Remove 8 screws (❶~❽).

Ref. No. 35

Removal of the Tweeter Speaker

Procedure
1→2→35

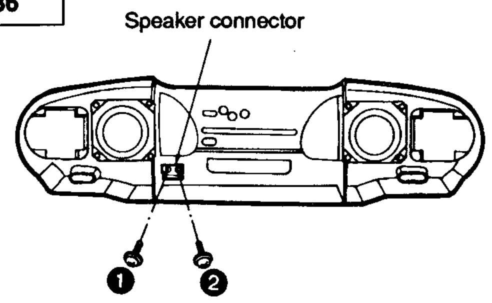

❶ ❷ ❸ ❹
Corers
❺ ❻ ❼ ❽
Tweeter speaker
Tweeter speaker

1. Remove 8 screws (❶~❽).
2. Remove 2 covers.

Ref. No. 36

Removal of the Speaker Connector

Procedure
1→2→36

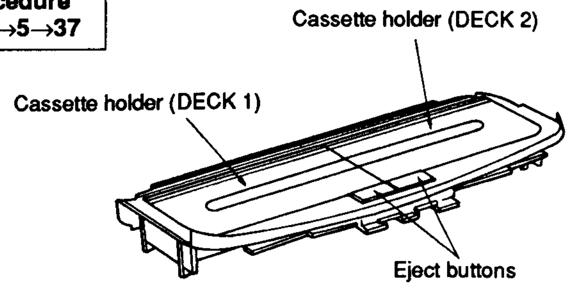

Speaker connector
❶
❷

- Remove 2 screws (❶, ❷).

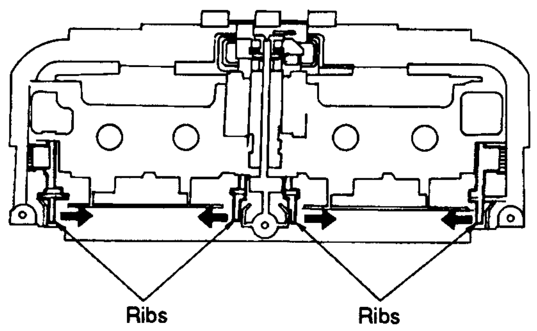
Ref. No. 37

Removal of the Cassette Holder

Procedure 1→2→5→37


Cassette holder (DECK 2)
Cassette holder (DECK 1)
Eject buttons

1. Press the eject button and then open the cassette holder

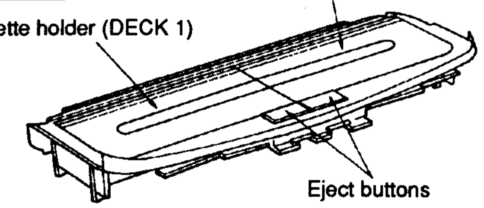


2. Remove the cassette holder by keeping the 4 ribs pressed in the direction of arrow.

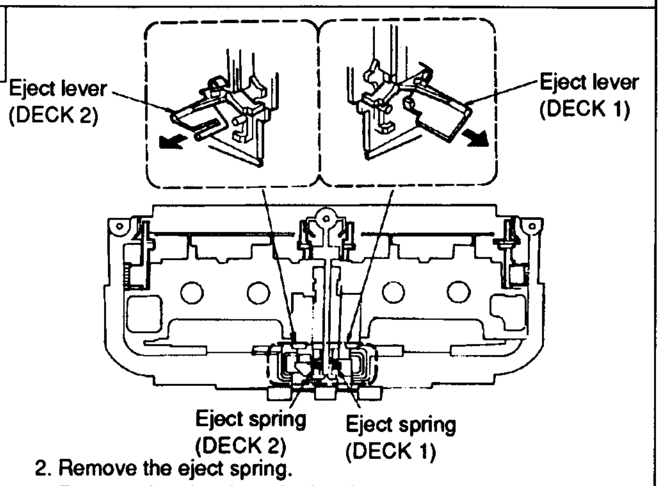
Ref. No. 38

Removal of the Eject Lever, Eject Button and Eject Rod

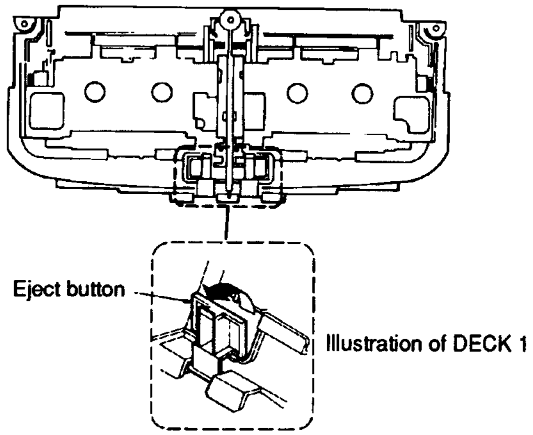
Procedure 1→2→5→38


Cassette holder (DECK 2)
Cassette holder (DECK 1)
Eject buttons

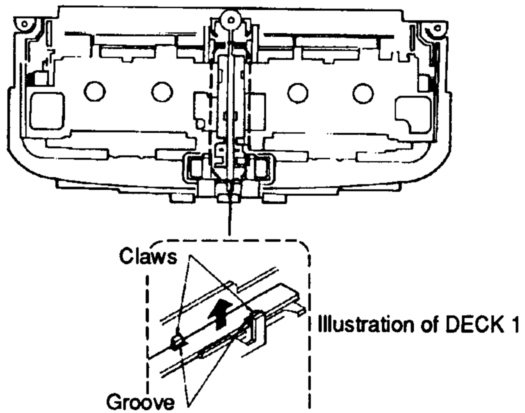
1. Press the eject button to open the cassette holder (DECK 1 and DECK 2).


Eject lever (DECK 2)
Eject lever (DECK 1)
Eject spring (DECK 2)
Eject spring (DECK 1)

2. Remove the eject spring.
3. Remove the eject lever in the direction of arrow.


Eject button
Illustration of DECK 1

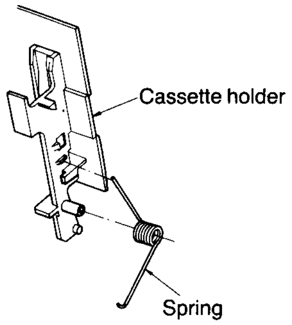
4. Remove the eject button in the direction of arrow.


Claws
Groove
Illustration of DECK 1

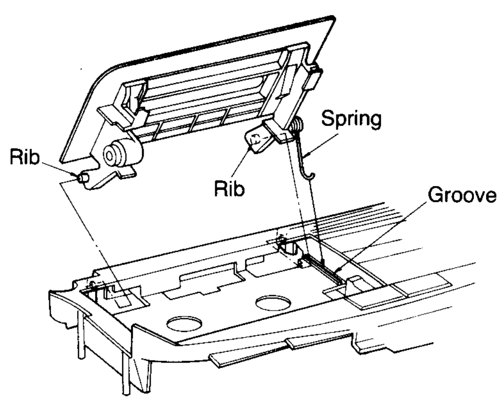
5. Fit 2 claws into the groove of the eject rod.
6. Remove the eject rod in the direction of arrow.

NOTE:
Please refer to pages 10-13 in the service manual for Model No. SL-CH550 (Order No.AD9208264C8) for information on "INSTALLING SERVO (CD) P.C.B.", "INSTALLING OF GUIDE SHAFT", "CD UNIT ASSEMBLY", "INSTALLING DISC TRAY UNIT" and "INSTALLING DISC TRAY".

•INSTALLATION OF CASSETTE HOLDER


Cassette holder
Spring

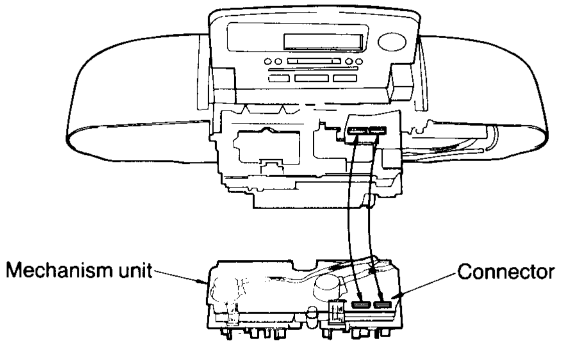
1. Install the spring of the cassette holder.


Spring
Rib
Rib
Groove

2. Fit the spring of the cassette holder into the groove.
3. Fix the rib.

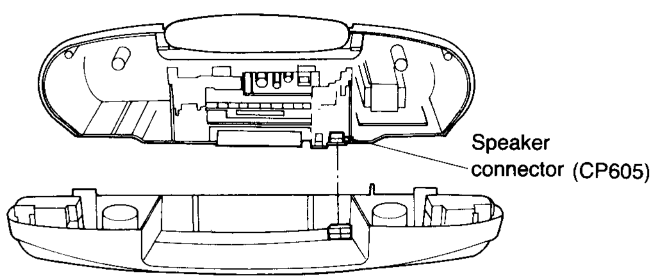
•INSTALLATION OF MECHANISM UNIT

- Install the mechanism unit by connecting the connectors correctly.


Mechanism unit
Connector

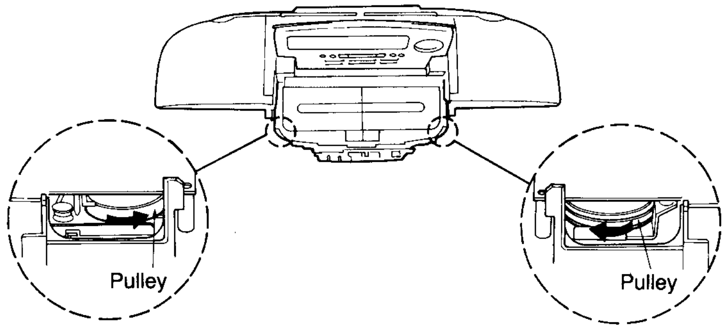
•INSTALLATION OF FRONT PANEL

- Install the front panel by connecting the speaker connector correctly.

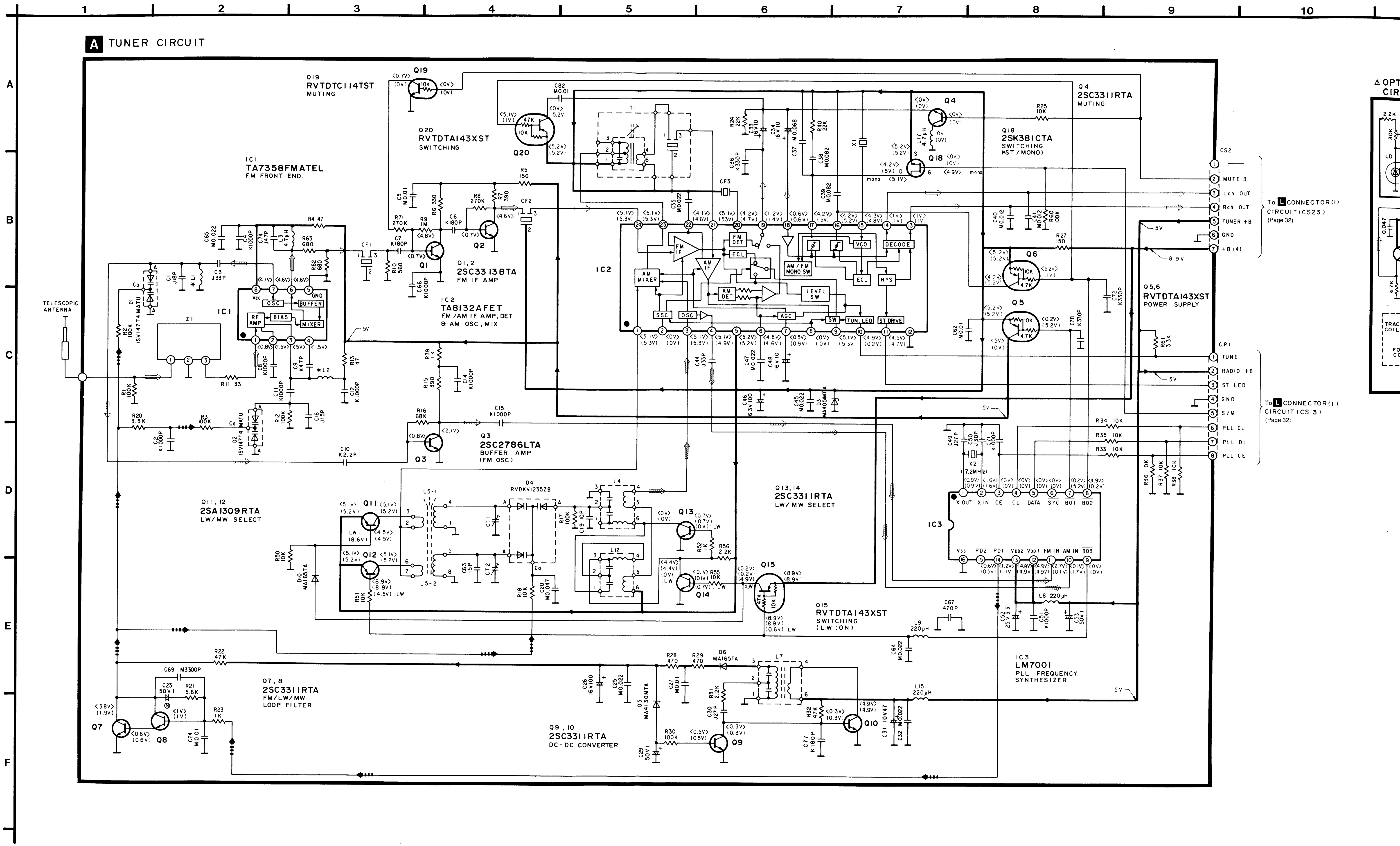

Speaker connector (CP605)

•MEASURE FOR TAPE TROUBLE

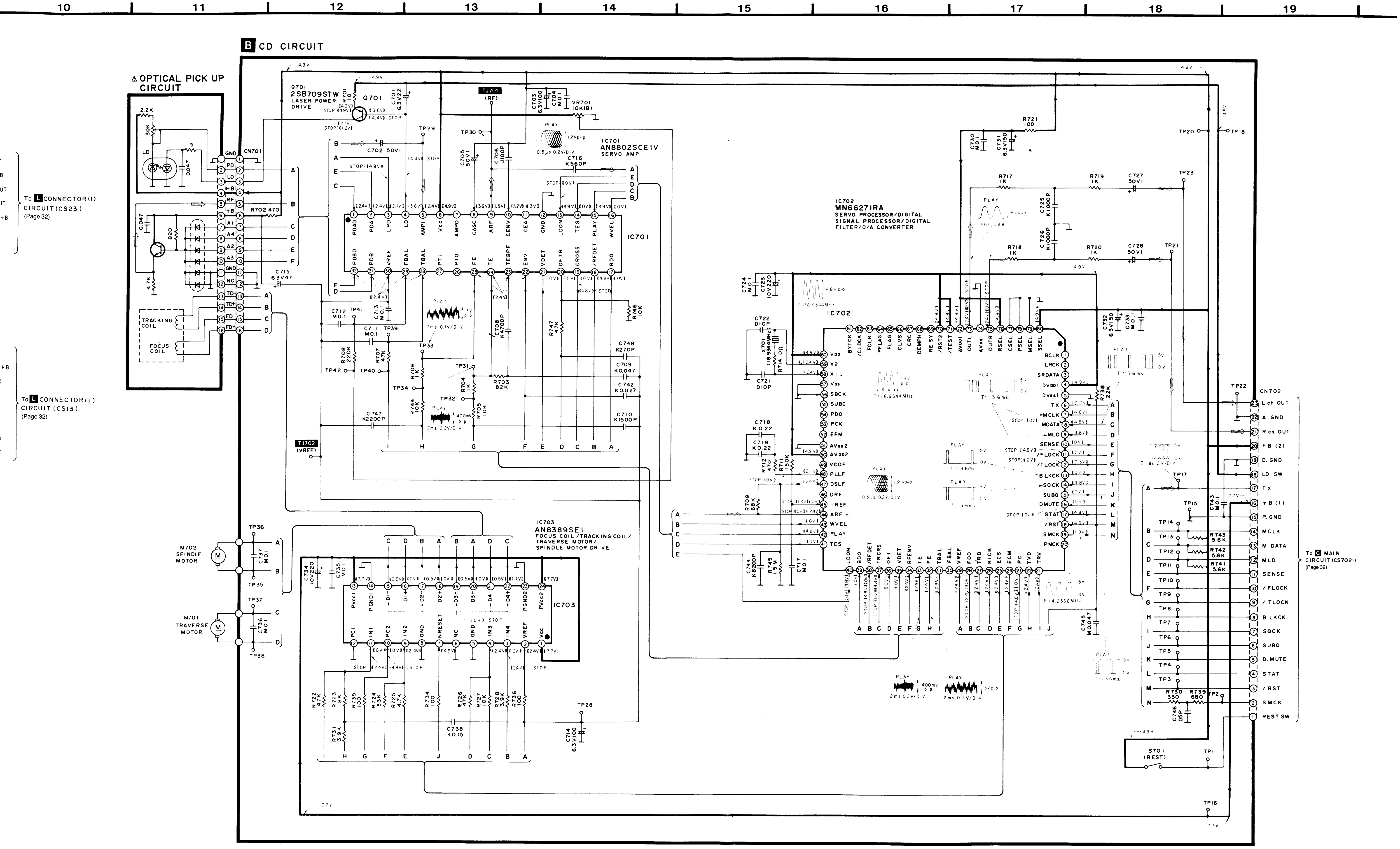
If a cassette tape cannot be removed from the deck since the tape is caught by the capstan or pinch roller during playback or recording, rotate the pulley in the direction of the arrow to remove the tape.


Pulley
Pulley

■ SCHEMATIC DIAGRAM •TUNER AND CD CIRCUIT (Parts list on pages 69~77.)


A TUNER CIRCUIT
TELESCOPIC ANTENNA
Q19 RVTDTC114TST MUTING
Q20 RVTDTA143XST SWITCHING
IC1 TA7358FMATEL FM FRONT END
IC1
RF AMP
BIAS
OSC
BUFFER
MIXER
GND
Vcc
Z1
D1 1SV147T4MATU
D2 1SV147T4MATU
Q1, 2 2SC3313BTA FM IF AMP
IC2 TA8132AFET FM/AM IF AMP, DET & AM OSC, MIX
IC2
FM IF
AM IF
AM MIXER
FM DET
ECL
AM DET
AM/FM MONO SW
LEVEL SW
AGC
SSC
OSC
SW
TUN. LED
ST DRIVE
VCO
DECODE
HYS
T1
CF1
CF2
CF3
X1
Q3 2SC2786LTA BUFFER AMP (FM OSC)
Q4 2SC3311RTA MUTING
Q18 2SK381CTA SWITCHING (ST/MONO)
Q5, 6 RVTDTA143XST POWER SUPPLY
Q11, 12 2SA1309RTA LW/MW SELECT
D4 RVDKV1235ZB
L5-1
L5-2
L4
L12
Q13, 14 2SC3311RTA LW/MW SELECT
Q15 RVTDTA143XST SWITCHING (LW:ON)
D10 MA165TA
D3 MA4056MTA
IC3
X OUT
X IN
CE
CL
DATA
SYC
BO1
BO2
Vss
PD2
PD1
VDD2
VDD1
FM IN
AM IN
BO3
X2 (7.2MHz)
IC3 LM7001 PLL FREQUENCY SYNTHESIZER
Q7, 8 2SC3311RTA FM/LW/MW LOOP FILTER
Q9, 10 2SC3311RTA DC-DC CONVERTER
D5 MA4130MTA
D6 MA165TA
L7
L8 220μH
L9 220μH
L15 220μH
CS2
1 —
2 MUTE B
3 Lch OUT
4 Rch OUT
5 TUNER +B
6 GND
7 +B (4)
To L CONNECTOR (1) CIRCUIT (CS23) (Page 32)
CP1
1 TUNE
2 RADIO +B
3 ST LED
4 GND
5 S/M
6 PLL CL
7 PLL DI
8 PLL CE
To L CONNECTOR (1) CIRCUIT (CS13) (Page 32)
5V
8.9V
mono
△ OPT
CIR

B CD CIRCUIT


10
11
12
13
14
15
16
17
18
19
△ OPTICAL PICK UP CIRCUIT
To L CONNECTOR(1) CIRCUIT(CS23) (Page 32)
To L CONNECTOR(1) CIRCUIT(CS13) (Page 32)
CN701
Q701 2SB709STW LASER POWER DRIVE
TJ701 (RF)
TJ702 (VREF)
VR701 10K(B)
IC701 AN8802SCE1V SERVO AMP
IC702 MN6627IRA SERVO PROCESSOR/DIGITAL SIGNAL PROCESSOR/DIGITAL FILTER/D/A CONVERTER
IC703 AN8389SE1 FOCUS COIL/TRACKING COIL/TRAVERSE MOTOR/SPINDLE MOTOR DRIVE
TRACKING COIL
FOCUS COIL
M702 SPINDLE MOTOR
M701 TRAVERSE MOTOR
X701 (16.9344MHz)
CN702
To G MAIN CIRCUIT (CS7021) (Page 32)
L ch OUT
A. GND
R ch OUT
+B (2)
D. GND
LD SW
TX
+B (1)
P. GND
MCLK
M DATA
MLD
SENSE
/ FLOCK
/ TLOCK
B LKCK
SQCK
SUBQ
D. MUTE
STAT
/ RST
SMCK
REST SW
S701 (REST)
4.9V
7.7V
PLAY
STOP

Notes:

<for Tuner circuit>
- No switches or VRs.

<for CD circuit>

•S701	: Rest switch.
•VR701	: Best eye adjustment VR.

<for Tape deck and Mechanism circuit>

•S951	: Deck 1 mode detect switch.
•S952	: Deck 1 cassette tape insertion detect switch.
•S953	: Deck 1 CrO₂/METAL tape detect switch.
•S971	: Deck 2 mode detect switch.
•S972	: Deck 2 cassette tape insertion detect switch.
•S973	: Deck 2 record prevention tab detect switch. (REV)
•S974	: Deck 2 record prevention tab detect switch. (FWD)
•S975	: Deck 2 CrO₂ tape detect switch.
•S976	: Deck 2 Metal tape detect switch.
•VR301	: Deck 2 tape speed adjustment VR. (HIGH)
•VR302	: Deck 2 tape speed adjustment VR. (NORMAL)
•VR303	: Deck 1 tape speed adjustment VR. (NORMAL)
•VR101	: Deck 1 Lch playback level (Dolby) adjustment VR.
•VR102	: Deck 2 Lch playback level (Dolby) adjustment VR.
•VR201	: Deck 1 Rch playback level (Dolby) adjustment VR.
•VR202	: Deck 2 Rch playback level (Dolby) adjustment VR.

General

- DC voltage measurements are taken with electronics voltmeter.
  The negative terminal of the battery provides negative meter connection point.

( )...LW/MW < >...FM (( ))...CD

No mark...TAPE PLAYBACK (DECK 2) [ ]...TAPE RECORDING << >> ...HIGH SPEED EDITING

- Important safety notice.
  Components identified by ⚠ mark have special characteristics important for safety.
  When replacing any of these components, use only manufacturer's specified parts.

•This schematic diagram may be modified at any time with the development of new technology.

⇨ : **FM Signal Line**

▨⇨ : **LW/MW OSC Signal Line**

⇨ : **CD Signal Line**

□□□▷ : **Recording Signal Line**

—➤— : **+B Line**

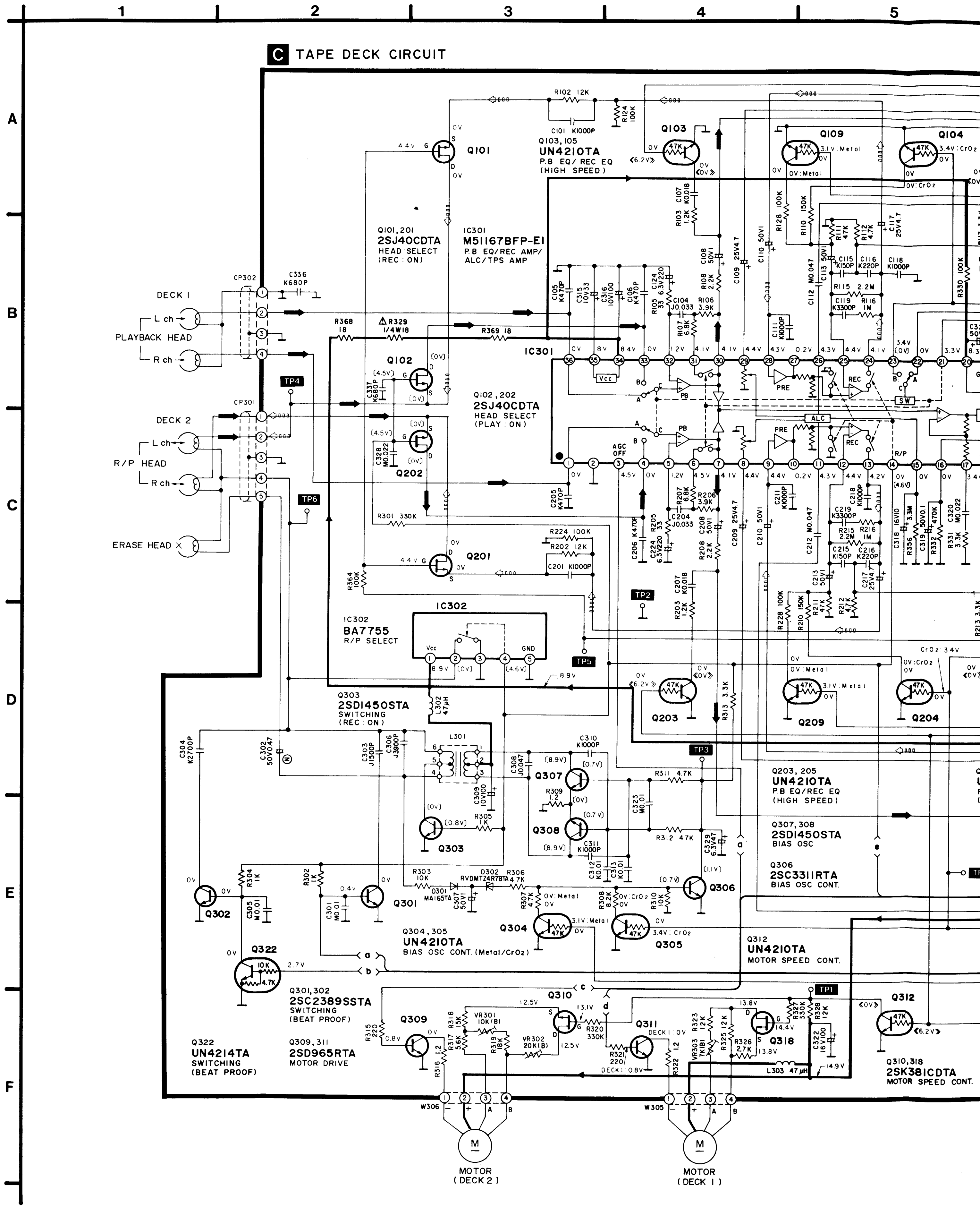
▨⇨ : **FM OSC Signal Line**

■■■➧ : **FM/LW/MW Vcap Control Signal Line**

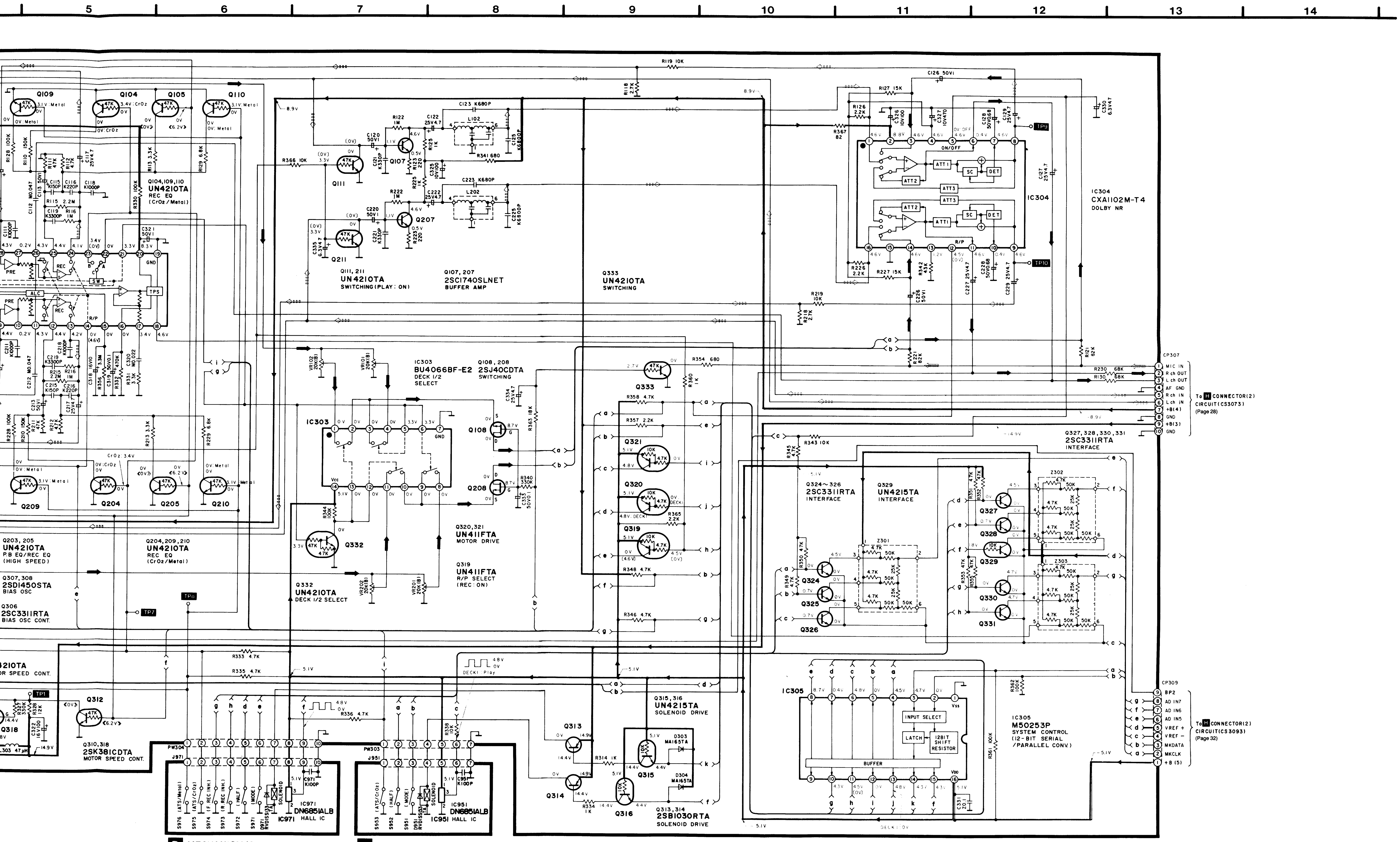
➡ : **Tape Playback Signal Line**

▨⇨ : **Mic Signal Line**

■ SCHEMATIC DIAGRAM •TAPE DECK AND MECHANISM CIRCUIT (Parts list on pages 69~77.)


1
2
3
4
5
A
B
C
D
E
F
C TAPE DECK CIRCUIT
DECK 1
PLAYBACK HEAD
L ch
R ch
DECK 2
R/P HEAD
ERASE HEAD
CP302
CP301
TP1
TP2
TP3
TP4
TP5
TP6
Q101
Q102
Q103
Q104
Q109
Q201
Q202
Q203
Q204
Q209
Q301
Q302
Q303
Q304
Q305
Q306
Q307
Q308
Q309
Q310
Q311
Q312
Q318
Q322
Q101, 201
2SJ40CDTA
HEAD SELECT
(REC : ON)
Q102, 202
2SJ40CDTA
HEAD SELECT
(PLAY : ON)
Q103, 105
UN4210TA
P.B EQ/REC EQ
(HIGH SPEED)
IC301
M51167BFP-E1
P.B EQ/REC AMP/
ALC/TPS AMP
IC302
BA7755
R/P SELECT
Q303
2SD1450STA
SWITCHING
(REC : ON)
Q203, 205
UN4210TA
P.B EQ/REC EQ
(HIGH SPEED)
Q307, 308
2SD1450STA
BIAS OSC
Q306
2SC3311RTA
BIAS OSC CONT.
Q304, 305
UN4210TA
BIAS OSC CONT. (Metal/CrO2)
Q312
UN4210TA
MOTOR SPEED CONT.
Q301, 302
2SC2389SSTA
SWITCHING
(BEAT PROOF)
Q322
UN4214TA
SWITCHING
(BEAT PROOF)
Q309, 311
2SD965RTA
MOTOR DRIVE
Q310, 318
2SK381CDTA
MOTOR SPEED CONT.
VR301
VR302
VR303
L301
L302
L303
W306
W305
MOTOR
(DECK 2)
MOTOR
(DECK 1)
PRE
PB
REC
ALC
SW
R/P
AGC OFF
Vcc
GND

ts list on pages 69~77.)


5
6
7
8
9
10
11
12
13
14
Q109
Q104
Q105
Q110
Q104,109,110
UN4210TA
REC EQ
(CrO2/Metal)
PRE
REC
ALC
SW
TPS
R/P
GND
Q209
Q204
Q205
Q210
Q203, 205
UN4210TA
P.B EQ/REC EQ
(HIGH SPEED)
Q204,209,210
UN4210TA
REC EQ
(CrO2/Metal)
Q307,308
2SD1450STA
BIAS OSC
Q306
2SC3311RTA
BIAS OSC CONT.
3210TA
OR SPEED CONT.
TP1
TP7
TP0
Q318
Q312
Q310,318
2SK381CDTA
MOTOR SPEED CONT.
Q111
Q211
Q107
Q207
L102
L202
Q111, 211
UN4210TA
SWITCHING (PLAY: ON)
Q107, 207
2SC1740SLNET
BUFFER AMP
Q333
UN4210TA
SWITCHING
IC303
BU4066BF-E2
DECK 1/2
SELECT
Q108, 208
2SJ40CDTA
SWITCHING
Q108
Q208
Q332
Q332
UN4210TA
DECK 1/2 SELECT
Q320,321
UN411FTA
MOTOR DRIVE
Q319
UN411FTA
R/P SELECT
(REC: ON)
Q321
Q320
Q319
VR101
VR102
VR201
VR202
DECK1 Play
PW304
J971
PW303
J951
IC971
DN6851ALB
HALL IC
IC951
DN6851ALB
HALL IC
Q313
Q314
Q315
Q316
D303
MA165TA
D304
MA165TA
Q315, 316
UN4215TA
SOLENOID DRIVE
Q313, 314
2SB1030RTA
SOLENOID DRIVE
IC304
CXA1102M-T4
DOLBY NR
ON/OFF
ATT1
ATT2
ATT3
SC
DET
TP9
TP10
CP307
MIC IN
R ch OUT
L ch OUT
AF GND
R ch IN
L ch IN
+B(4)
GND
+B(3)
GND
To H CONNECTOR(2) CIRCUIT(CS3073)
(Page 28)
Q327,328,330,331
2SC3311RTA
INTERFACE
Q324~326
2SC3311RTA
INTERFACE
Q329
UN4215TA
INTERFACE
Z301
Z302
Z303
Q324
Q325
Q326
Q327
Q328
Q329
Q330
Q331
IC305
INPUT SELECT
LATCH
12BIT SHIFT RESISTOR
BUFFER
IC305
M50253P
SYSTEM CONTROL
(12-BIT SERIAL /PARALLEL CONV.)
CP309
BP2
AD IN7
AD IN6
AD IN5
VREF +
VREF −
MKDATA
MKCLK
+B(5)
To H CONNECTOR(2) CIRCUIT(CS3093)
(Page 32)

D MECHANISM (DECK2) CIRCUIT

E MECHANISM (DECK1) CIRCUIT

Notes:

<for Main circuit>

•S650	: AC/DC select switch.
•S681	: Disc tray open/close switch (CD OPEN/CLOSE)
•S682	: Top panel open/close switch. (OPEN/CLOSE)
•S683	: Volume up switch. (VOL +)
•S684	: Volume down switch. (VOL −)
•S685	: Operation switch. (OPERATION)
•S686	: CD stop switch. (■)
•S687	: CD playback switch. (▶)
•S688	: Function select switch. (TUNER/BAND)
•S689	: Deck forward side playback switch. (▶)
•S690	: Deck reverse side playback switch. (◀)
•S691	: Deck stop switch. (■)
•S692	: Deck fast/TPS switch. (TPS ▶▶)
•S693	: Deck fast/TPS switch. (◀◀ TPS)
•S790	: Disc tray close detect switch.
•S791	: Disc tray open detect switch.
•S4601	: Top panel open detect switch.
•S4602	: Top panel close detect switch.

<LCD circuit>

•S800	: AI jog dial. (AI JOG)
•S801	: Program set switch. (SET)
•S802	: Cancel switch. (CANCEL)
•S803	: Timer/clock switch. (TIMER/CLOCK)
•S804	: Sleep switch. (SLEEP)
•S805	: Timer recording switch. (REC-TIMER)
•S806	: Timer play switch. (PLAY-TIMER)
•S807	: ATLS switch. (ATLS)
•S808	: Recording pause switch. (● ❚❚)
•S809	: Auxiliary input select switch. (AUX)
•S810	: Tape counter reset switch. (COUNTER RESET)
•S811	: Reverse mode select switch. (REV MODE)
•S812	: Deck select switch. (DECK1/2)
•S813	: Edit recording switch. (HIGH)
•S814	: Edit recording switch. (NORMAL)
•S815	: T-SURROUND switch. (T-SURROND)
•S816	: Beep on/off switch. (BEEP)
•S817	: CD edit switch. (CD EDIT)
•S818	: Dolby NR switch. (DOLBY NR)
•S819	: Preset equalizer select switch. (PRESET EQ)
•S823	: S-XBS level control switch. (S-XBS LEVEL)
•S824	: Tuning mode select switch. (TUNING MODE)
•S825	: Title switch. (TITLE)

General

- DC voltage measurements are taken with electronics voltmeter.
  The negative terminal of the battery provides negative meter connection point.

No mark..TAPE PLAYBACK (DECK 2) ⌜ ⌟...TUNER (( ))...CD
[ ]...AUX

- Battery current:

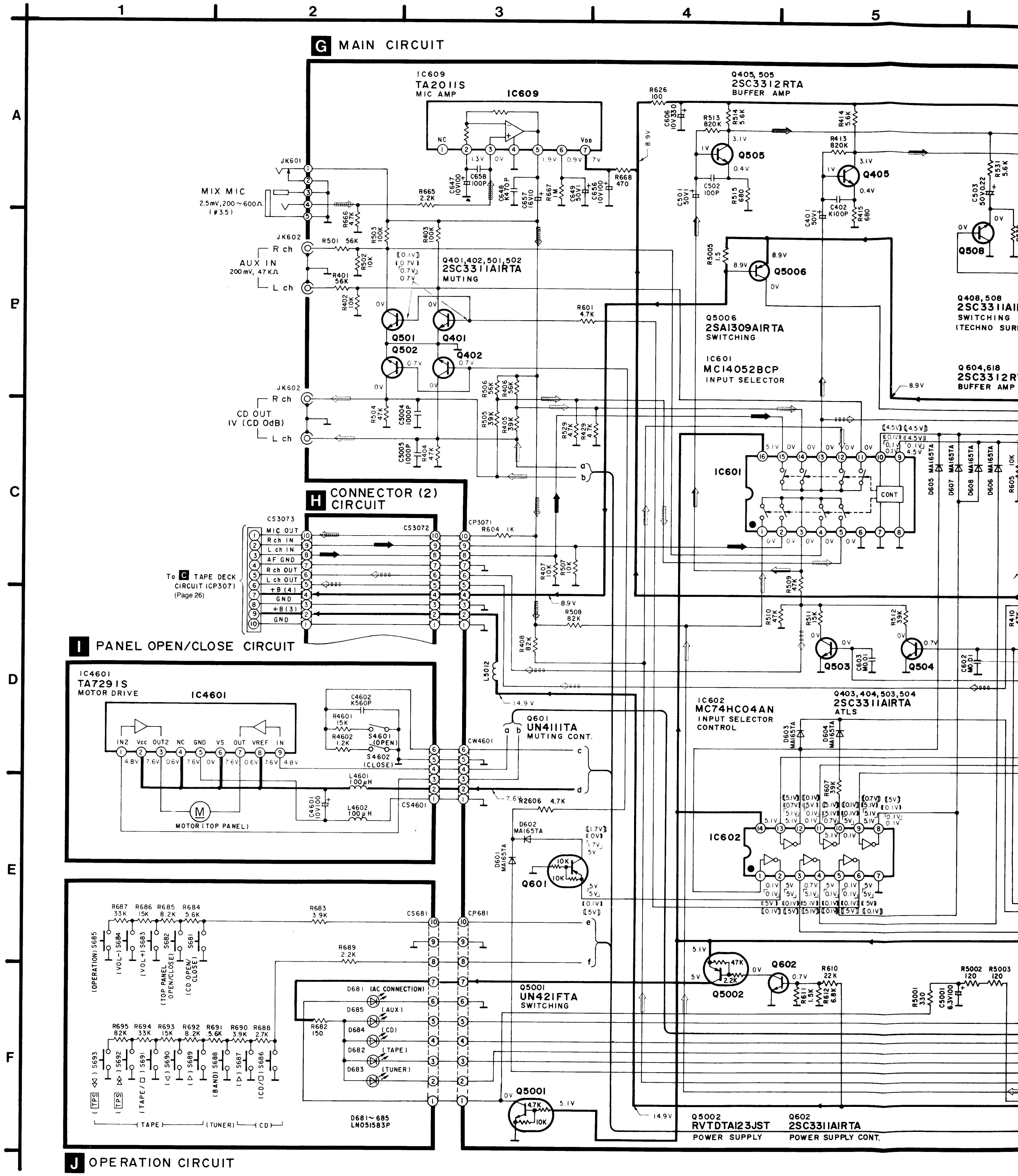
Vol. min	420 mA (FM)	Vol. max	1010 mA (FM)	Measurement instruction
	410 mA (LW/MW)		690 mA (LW/MW)	(LW/MW: 74 dB/m, 30% Mod.
	490 mA (TAPE)		1800 mA (TAPE)	FM: 60 dB, 30% Mod.
	620 mA (CD)		2140 mA (CD)	TAPE: 315 Hz, 0 dB
				CD: 1 kHz, 0 dB)

- Important safety notice.
  Components identified by ⚠ mark have special characteristics important for safety.
  When replacing any of these components, use only manufacturer's specified parts.

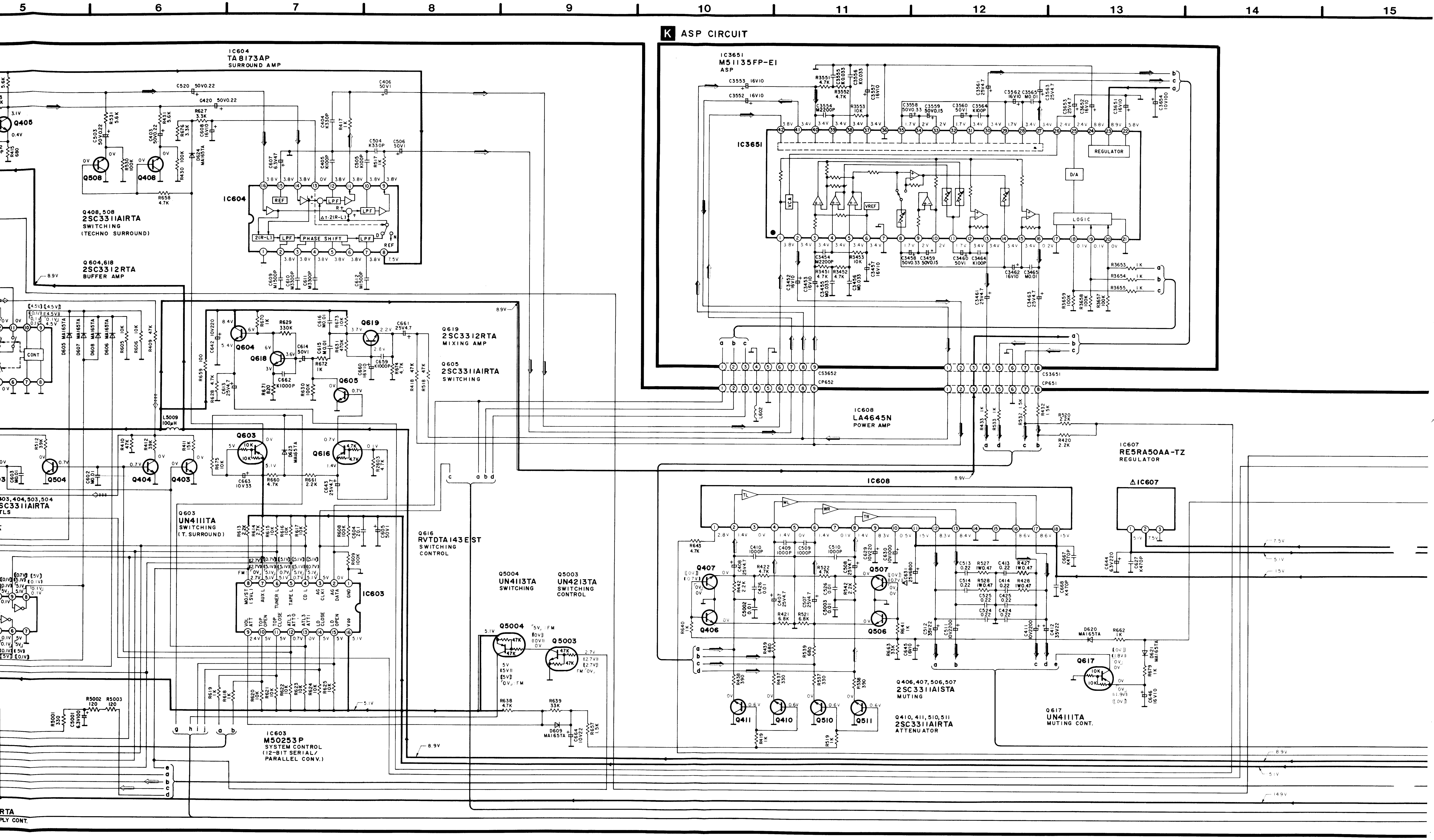
•This schematic diagram may be modified at any time with the development of new technology.

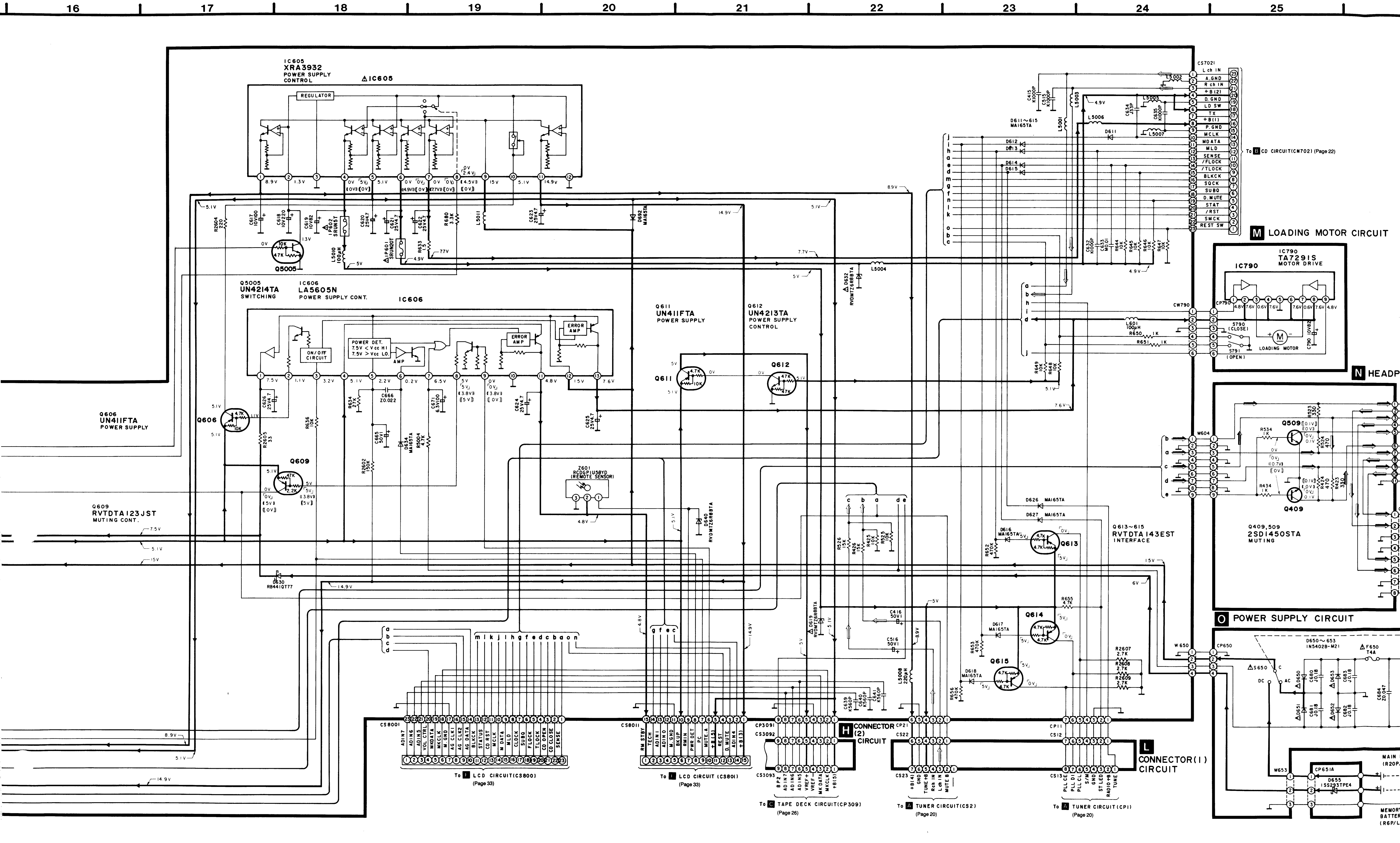
⇨: **FM Signal Line**	▨⇨: **CD Signal Line**
➡: **AF Signal Line**	□□□⇨: **Recording Signal Line**
▨⇨: **Mic Signal Line**	━●━: **+B Line**

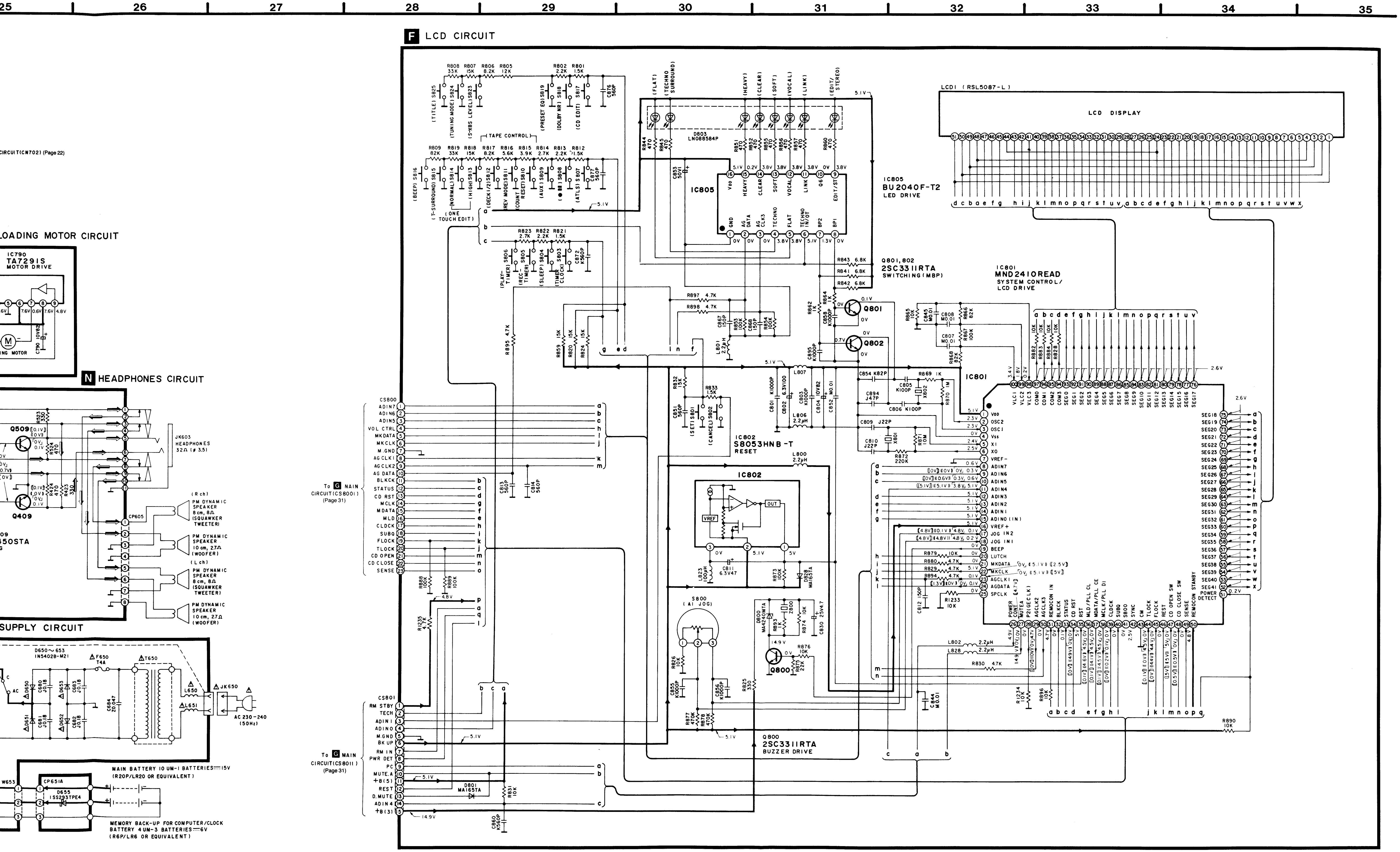
■ SCHEMATIC DIAGRAM •MAIN, CONNECTOR, PANEL OPEN/CLOSE, ASP, LOADING MOTOR, OP


1
2
3
4
5
A
B
C
D
E
F
G MAIN CIRCUIT
IC609 TA2011S MIC AMP
IC609
MIX MIC
2.5mV, 200～600Ω (φ3.5)
JK601
JK602
AUX IN 200mV, 47KΩ
R ch
L ch
CD OUT 1V (CD 0dB)
Q401,402,501,502 2SC3311AIRTA MUTING
Q501
Q502
Q401
Q402
Q405,505 2SC3312RTA BUFFER AMP
Q505
Q405
Q5006
Q5006 2SA1309AIRTA SWITCHING
IC601 MC14052BCP INPUT SELECTOR
IC601
CONT
Q408,508 2SC3311AI SWITCHING (TECHNO SUR
Q604,618 2SC3312R BUFFER AMP
Q508
H CONNECTOR (2) CIRCUIT
CS3073
CS3072
CP3071
MIC OUT
R ch IN
L ch IN
AF GND
R ch OUT
L ch OUT
+B(4)
GND
+B(3)
GND
To C TAPE DECK CIRCUIT (CP307) (Page 26)
Q503
Q504
IC602 MC74HC04AN INPUT SELECTOR CONTROL
IC602
Q403,404,503,504 2SC3311AIRTA ATLS
Q601 UN4111TA MUTING CONT.
Q601
D602 MA165TA
D601 MA165TA
I PANEL OPEN/CLOSE CIRCUIT
IC4601 TA7291S MOTOR DRIVE
IC4601
S4601 (OPEN)
S4602 (CLOSE)
CW4601
CS4601
MOTOR (TOP PANEL)
Q602
Q5002
Q5001 UN421FTA SWITCHING
Q5001
Q5002 RVTDTA123JST POWER SUPPLY
Q602 2SC3311AIRTA POWER SUPPLY CONT.
CS681
CP681
D681 (AC CONNECTION)
D685 (AUX)
D684 (CD)
D682 (TAPE)
D683 (TUNER)
D681～685 LN05I583P
(OPERATION) S685
(VOL−) S684
(VOL+) S683
(TOP PANEL OPEN/CLOSE) S682
(CD OPEN/CLOSE) S681
TAPE
TUNER
CD
J OPERATION CIRCUIT

ADING MOTOR, OPERATION, HEADPHONES, POWER SUPPLY AND LCD CIRCUIT (Parts list on pages 69~77.)

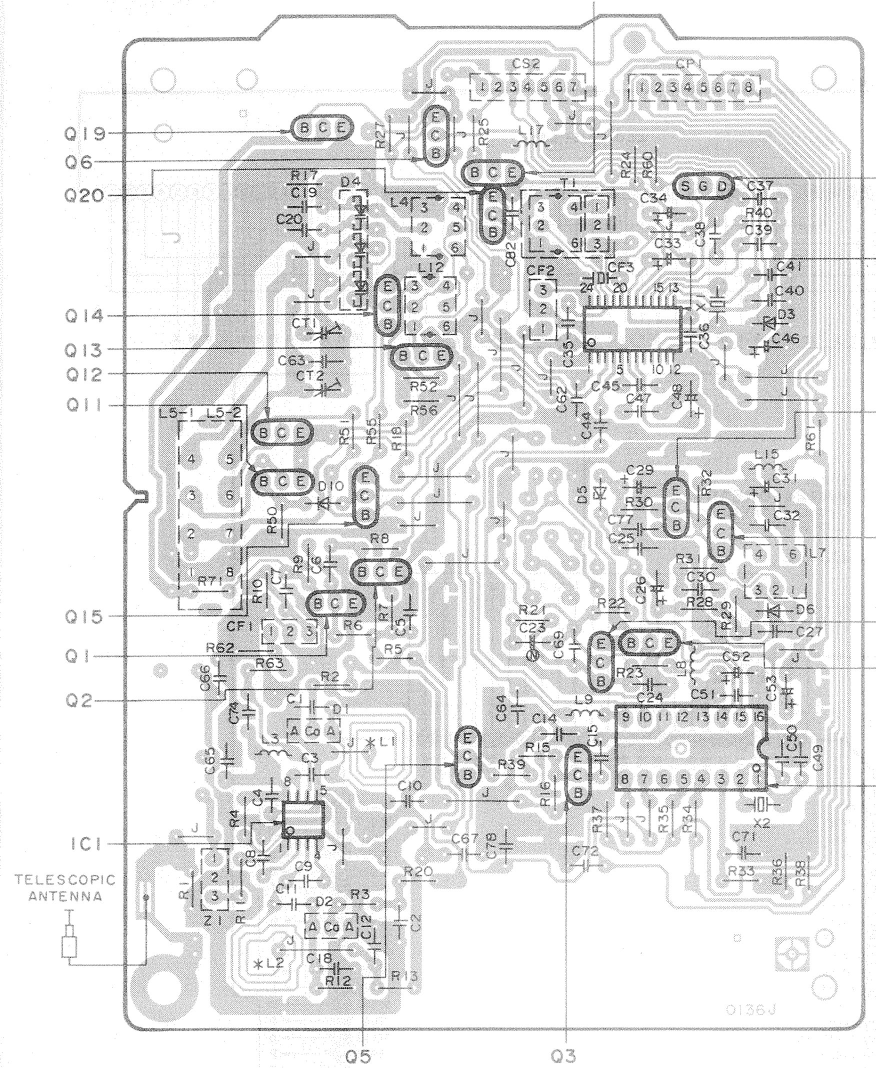

5
6
7
8
9
10
11
12
13
14
15
K ASP CIRCUIT
IC3651 M51135FP-EI ASP
IC3651
REGULATOR
D/A
LOGIC
VCA
VREF
CS3652
CP652
CS3651
CP651
IC604 TA8173AP SURROUND AMP
IC604
REF
LPF
PHASE SHIFT
2(R-L)
Δ1·2(R-L)
Q405
Q508
Q408
Q408,508 2SC3311AIRTA SWITCHING (TECHNO SURROUND)
Q604,618 2SC3312RTA BUFFER AMP
Q604
Q618
Q619
Q605
Q619 2SC3312RTA MIXING AMP
Q605 2SC3311AIRTA SWITCHING
CONT
L5009 100μH
Q603
Q616
Q504
Q404
Q403
403,404,503,504 2SC3311AIRTA
Q603 UN4111TA SWITCHING (T. SURROUND)
IC603
IC603 M50253P SYSTEM CONTROL (12-BIT SERIAL/ PARALLEL CONV.)
Q616 RVTDTA143EST SWITCHING CONTROL
Q5004 UN4113TA SWITCHING
Q5003 UN4213TA SWITCHING CONTROL
Q5004
Q5003
IC608 LA4645N POWER AMP
IC608
IC607 RE5RA50AA-TZ REGULATOR
ΔIC607
Q407
Q406
Q507
Q506
Q411
Q410
Q510
Q511
Q617
Q406,407,506,507 2SC3311AISTA MUTING
Q410,411,510,511 2SC3311AIRTA ATTENUATOR
Q617 UN4111TA MUTING CONT.
TL
WL
WR
TR
8.9V
7.5V
5.1V
15V
14.9V
RTA
PLY CONT.


16
17
18
19
20
21
22
23
24
25
IC605
XRA3932
POWER SUPPLY CONTROL
△IC605
REGULATOR
8.9V
1.3V
5.1V
15V
14.9V
IC606
LA5605N
POWER SUPPLY CONT.
IC606
ON/OFF CIRCUIT
POWER DET.
7.5V < Vcc HI
7.5V > Vcc LO
AMP
ERROR AMP
Q5005
UN4214TA
SWITCHING
Q5005
Q606
UN411FTA
POWER SUPPLY
Q606
Q609
RVTDTA123JST
MUTING CONT.
Q609
Q611
UN411FTA
POWER SUPPLY
Q612
UN4213TA
POWER SUPPLY CONTROL
Z601
RCDGP1U58YD
(REMOTE SENSOR)
D640
RVDMTZ6R8BTA
D630
RB441QT77
D632
RVDMTZ6R8BTA
D634
MA165TA
D692
MA165TA
D619
RVDMTZ6R8BTA
L5010
100μH
L5011
L5004
L5008
220μH
IC602
SRUN5T
IC601
SRUN00T
D611~615
MA165TA
L5001
L5003
L5006
L5005
L5007
L5002
CS7021
L ch IN
A.GND
R ch IN
+B(2)
D.GND
LD SW
TX
+B(1)
P.GND
MCLK
MDATA
MLD
SENSE
/FLOCK
/TLOCK
BLKCK
SQCK
SUBQ
D.MUTE
STAT
/RST
SMCK
REST SW
To B CD CIRCUIT(CN702) (Page 22)
M LOADING MOTOR CIRCUIT
IC790
TA7291S
MOTOR DRIVE
IC790
CW790
CP790
S790 (CLOSE)
S791 (OPEN)
LOADING MOTOR
L601 100μH
R650 1K
R651 1K
N HEADP
W604
Q509
Q409
R534 1K
R434 1K
Q409,509
2SD1450STA
MUTING
D626 MA165TA
D627 MA165TA
D616 MA165TA
D617 MA165TA
D618 MA165TA
Q613~615
RVTDTA143EST
INTERFACE
Q613
Q614
Q615
O POWER SUPPLY CIRCUIT
W650
CP650
D650~653
1N5402B-M21
△F650 T4A
△S650
DC
AC
W653
CP651A
D655
1SS293TPE4
MAIN (R20P
MEMORY BATTER (R6P/L
CS8001
ADIN7
ADIN6
VOL CTRL
MKDATA
MKCLK
M.GND
AG CLK1
AG CLK2
AG DATA
BLKCK
STATUS
CD RST
MCLK
M DATA
MLD
CLDCK
SUBQ
FLOCK
TLOCK
CD OPEN
CD CLOSE
SENSE
To F LCD CIRCUIT(CS800) (Page 33)
CS8011
RM STBY
TECH
ADIN1
ADIN0
M.GND
BKUP
RMIN
PWR DET
PC
MUTE_A
+B(5)
REST
D.MUTE
ADIN4
+B(3)
To F LCD CIRCUIT (CS801) (Page 33)
CP3091
CS3092
CS3093
BP2
ADIN7
ADIN6
ADIN5
VREF+
VREF-
MKDATA
MKCLK
+B(5)
To C TAPE DECK CIRCUIT(CP309) (Page 26)
H CONNECTOR (2) CIRCUIT
CP21
CS22
CS23
+B(4)
GND
TUNE+B
Rch IN
Lch IN
MUTE B
To A TUNER CIRCUIT(CS2) (Page 20)
CP11
CS12
CS13
PLL CE
PLL DI
PLL CL
S/M
GND
ST LED
RADIO+B
TUNE
To A TUNER CIRCUIT(CP1) (Page 20)
L CONNECTOR(1) CIRCUIT
7.5V
5.1V
15V
14.9V
8.9V
7.7V
4.9V
6V

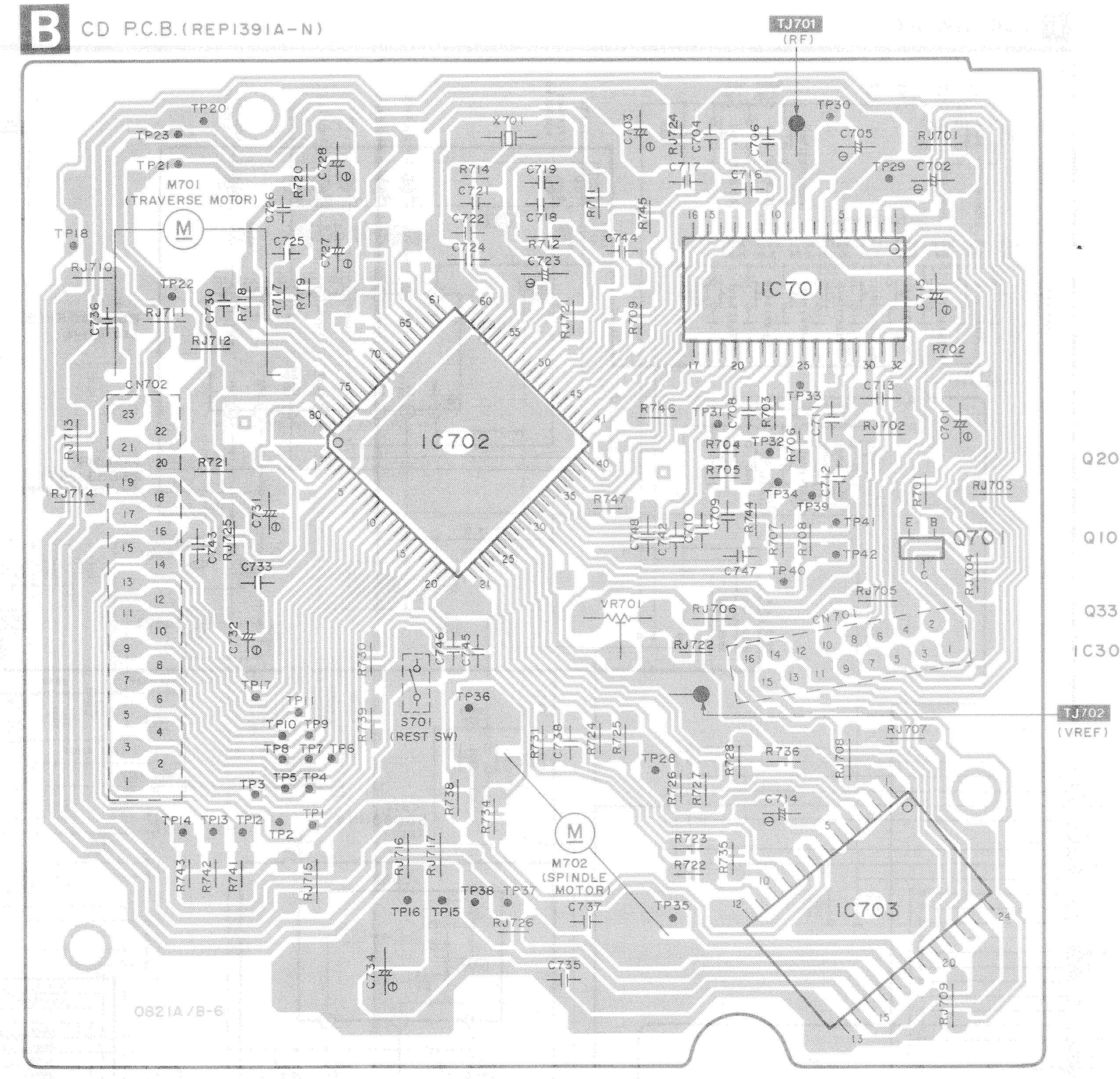

25
26
27
28
29
30
31
32
33
34
35
F LCD CIRCUIT
LOADING MOTOR CIRCUIT
IC790
TA7291S
MOTOR DRIVE
N HEADPHONES CIRCUIT
JK603
HEADPHONES
32Ω (φ 3.5)
Q509
Q409
CP605
PM DYNAMIC SPEAKER 8 cm, 8Ω (SQUAWKER TWEETER)
PM DYNAMIC SPEAKER 10 cm, 27Ω (WOOFER)
SUPPLY CIRCUIT
D650~653 1N5402B-M21
F650 T4A
T650
JK650
AC 230-240 (50Hz)
CP651A
D655 1SS293TPE4
MAIN BATTERY 10 UM-1 BATTERIES 15V (R20P/LR20 OR EQUIVALENT)
MEMORY BACK-UP FOR COMPUTER/CLOCK BATTERY 4 UM-3 BATTERIES 6V (R6P/LR6 OR EQUIVALENT)
CIRCUIT(CN702) (Page 22)
(TITLE) S825
(TUNING MODE) S824
(S-XBS LEVEL) S823
(PRESET EQ) S819
(DOLBY NR) S818
(CD EDIT) S817
(TAPE CONTROL)
(BEEP) S816
(T-SURROUND) S815
(NORMAL) S814
(HIGH) S813
(DECK 1/2) S812
(REV MODE) S811
(COUNT RESET) S810
(AUX) S809
S808
(ATLS) S807
(ONE TOUCH EDIT)
(PLAY-TIMER) S806
(REC-TIMER) S805
(SLEEP) S804
(TIMER CLOCK) S803
(FLAT)
(TECHNO SURROUND)
(HEAVY)
(CLEAR)
(SOFT)
(VOCAL)
(LINK)
(EDIT/STEREO)
D803 LN088584P
IC805
IC805 BU2040F-T2 LED DRIVE
Q801,802 2SC3311RTA SWITCHING(MBP)
Q801
Q802
LCD1 (RSL5087-L)
LCD DISPLAY
IC801 MND2410READ SYSTEM CONTROL/ LCD DRIVE
IC801
IC802 S8053HNB-T RESET
IC802
VREF
OUT
S800 (AI JOG)
(SET) S801
(CANCEL) S802
Q800
Q800 2SC3311RTA BUZZER DRIVE
D800 MA4240MTA
D801 MA165TA
D828 MA165TA
X801
X802
CS800
ADIN7
ADIN6
ADIN5
VOL CTRL
MKDATA
MKCLK
M.GND
AGCLK1
AGCLK2
AG DATA
BLKCK
STATUS
CD RST
MCLK
MDATA
MLD
CLOCK
SUBQ
FLOCK
TLOCK
CD OPEN
CD CLOSE
SENSE
To G MAIN CIRCUIT(CS8001) (Page 31)
CS801
RM STBY
TECH
ADIN1
ADIN0
M.GND
BK UP
RM IN
PWR DET
PC
MUTE.A
+B(5)
REST
D.MUTE
ADIN4
+B(3)
To G MAIN CIRCUIT(CS8011) (Page 31)
VDD
OSC2
OSC1
VSS
XI
XO
VREF-
ADIN7
ADIN6
ADIN5
ADIN4
ADIN3
ADIN2
ADIN1
ADIN0 (IN)
VREF+
JOG IN2
JOG IN1
BEEP
LUTCH
MKDATA
MKCLK
AGCLK1
AGDATA
SPCLK
POWER CONT
MUTEA
P2(GECLK)
AGCLK2
AGCLK3
REMOCON IN
BLKCK
STATUS
CD RST
MLD/PLL CL
MDATA/PLL CE
MCLK/PLL DI
CLOCK
SUBQ
SBOO
SYNC
CM
TLOCK
FLOCK
REST
CD OPEN SW
CD CLOSE SW
SENSE
REMOCON STANBY
POWER DETECT
VLC1
VLC2
VLC3
COM0
COM1
COM2
COM3
SEG0
SEG1
SEG2
SEG3
SEG4
SEG5
SEG6
SEG7
SEG8
SEG9
SEG10
SEG11
SEG12
SEG13
SEG14
SEG15
SEG16
SEG17
SEG18
SEG19
SEG20
SEG21
SEG22
SEG23
SEG24
SEG25
SEG26
SEG27
SEG28
SEG29
SEG30
SEG31
SEG32
SEG33
SEG34
SEG35
SEG36
SEG37
SEG38
SEG39
SEG40
SEG41
L801 2.2μH
L806 2.2μH
L807
L800 2.2μH
L802 2.2μH
L828 2.2μH
L823 100μH

■ PRINTED CIRCUIT BOARD DIAGRAM

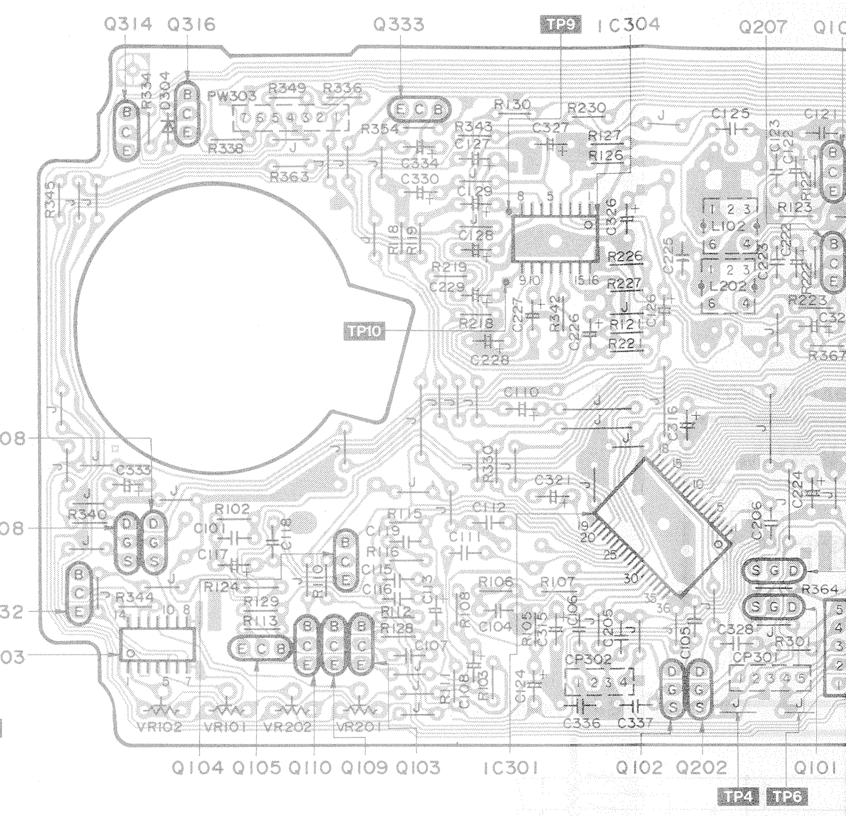
A TUNER P.C.B. (REP1316F)

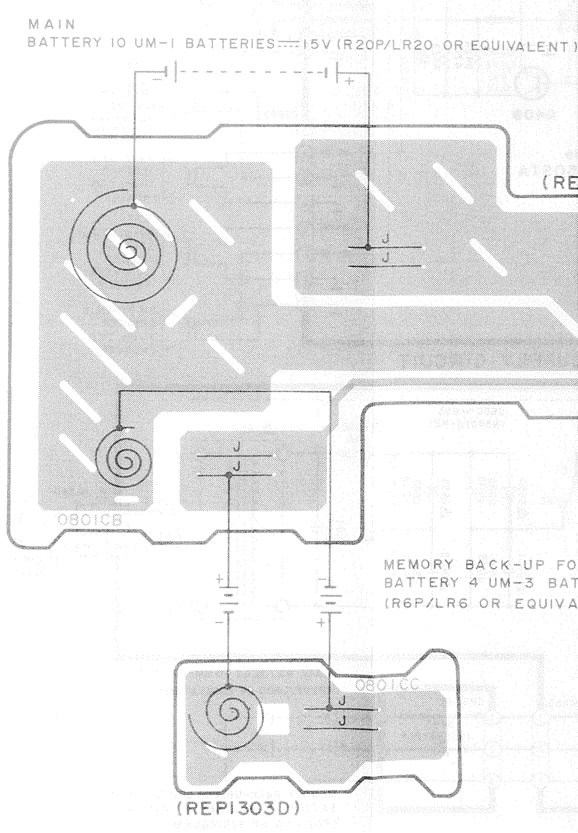

Q4
CS2
CP1
Q19
Q6
Q20
Q18
IC2
Q14
Q13
Q12
Q11
Q9
Q10
Q15
Q1
Q2
Q8
Q7
IC3
IC1
TELESCOPIC ANTENNA
Q5
Q3
0136J

B CD P.C.B. (REP1391A-N)

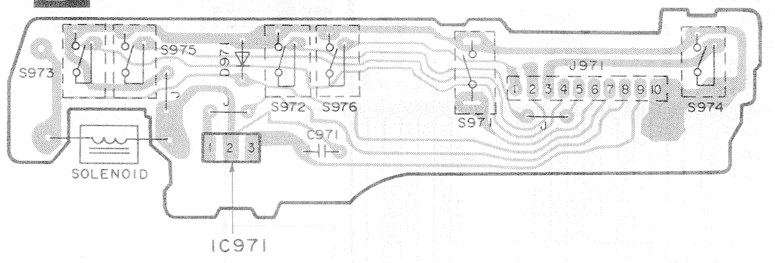

TJ701 (RF)
M701 (TRAVERSE MOTOR)
CN702
IC702
IC701
Q701
VR701
CN701
S701 (REST SW)
TJ702 (VREF)
M702 (SPINDLE MOTOR)
IC703
0821A/B-6

C TAPE DECK P.C.B. (REP1508B)

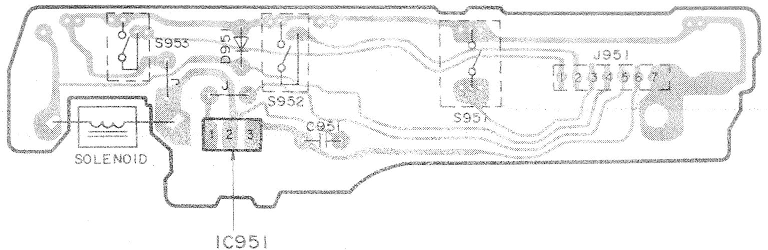

Q314 Q316
Q333
TP9
IC304
Q207
TP10
Q208
Q108
Q332
IC303
Q104 Q105 Q110 Q109 Q103
IC301
Q102 Q202
Q101
TP4 TP6


MAIN BATTERY 10 UM-1 BATTERIES ⎓ 15V (R20P/LR20 OR EQUIVALENT)
0801CB
MEMORY BACK-UP FO
BATTERY 4 UM-3 BAT
(R6P/LR6 OR EQUIVA
0801CC
(REP1303D)

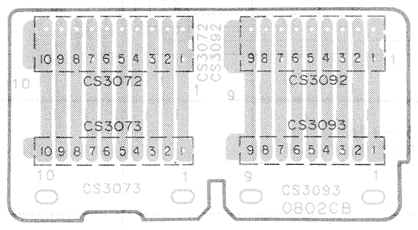
D MECHANISM (DECK 2) P.C.B. (REP0228)


S973
S975
D971
S972
S976
J971
S971
S974
C971
SOLENOID
IC971

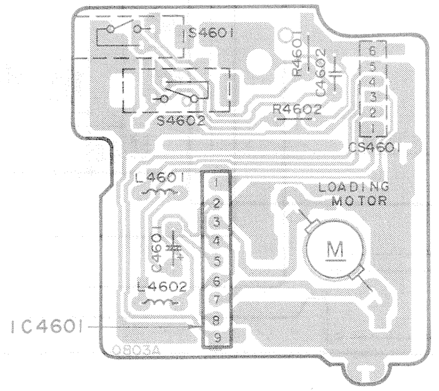
E MECHANISM (DECK 1) P.C.B. (REP0152)


S953
D951
S952
J951
S951
C951
SOLENOID
IC951

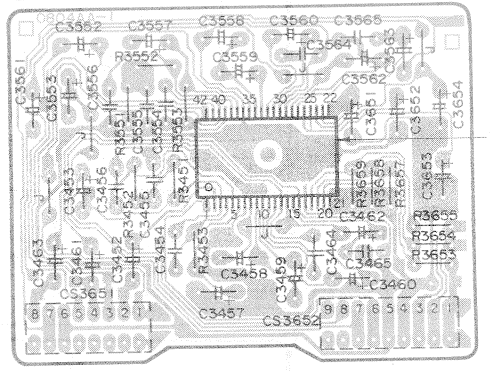
H CONNECTOR (2) P.C.B. (REP1304B)

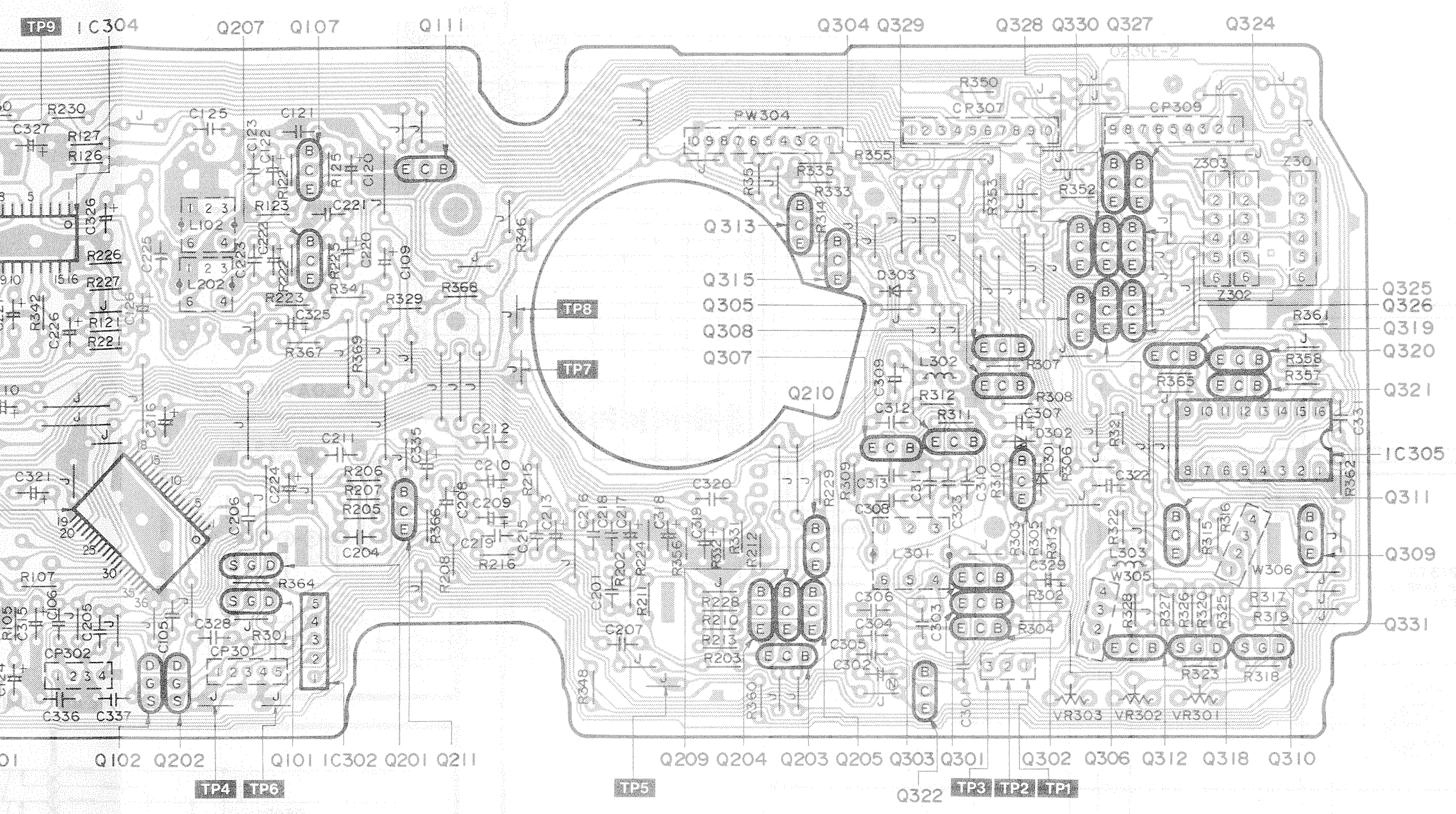

CS3072
CS3092
CS3073
CS3093
0802CB

I PANEL OPEN/CLOSE P.C.B. (REP1305A)

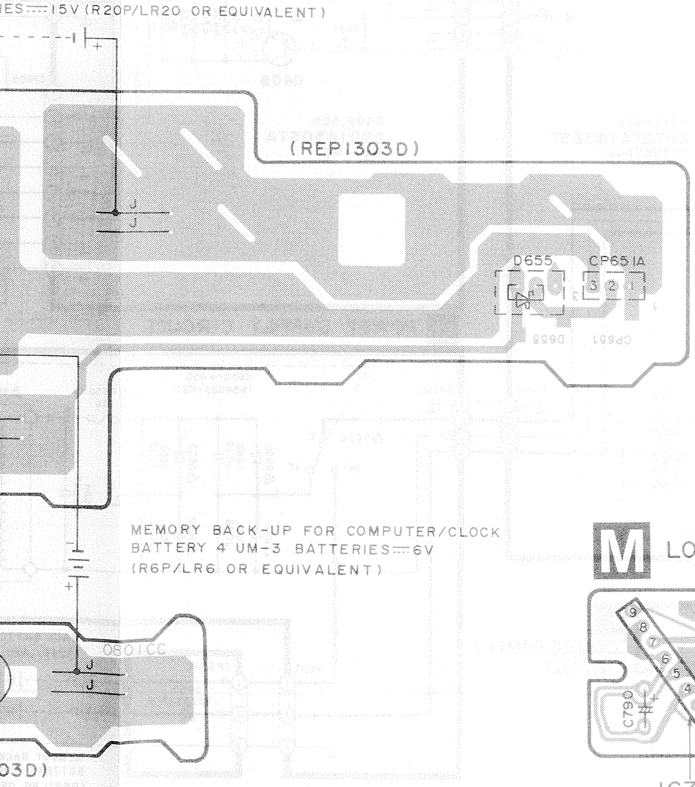

S4601
S4602
R4601
C4602
R4602
CS4601
L4601
C4601
L4602
LOADING MOTOR
IC4601
0803A

K ASP P.C.B. (REP1308B)

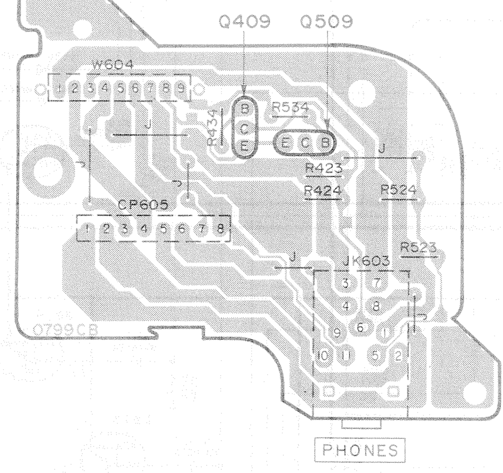

IC3651
CS3651
CS3652


TP9
IC304
Q207
Q107
Q111
Q304
Q329
Q328
Q330
Q327
Q324
PW304
CP307
CP309
R350
R355
R335
R333
Q313
Q315
Q305
Q308
Q307
Q210
D303
TP8
TP7
Z303
Z302
Q325
Q326
Q319
Q320
Q321
IC305
Q311
Q309
Q331
R361
R358
R357
R365
L302
R312
R311
R307
R308
R230
R127
R126
C327
C125
C121
C221
R123
L102
L202
R226
R227
R223
R225
R341
R329
R366
R367
R369
R121
R122
C325
C211
R206
R207
R205
C204
R364
R107
CP302
CP301
C336
C337
R301
R216
R202
R203
R213
R210
R228
R304
R302
R318
R319
R317
R323
VR303
VR302
VR301
W305
W306
SGD
ECB
Q102
Q202
Q101
IC302
Q201
Q211
Q209
Q204
Q203
Q205
Q303
Q301
Q302
Q306
Q312
Q318
Q310
Q322
TP4
TP6
TP5
TP3
TP2
TP1

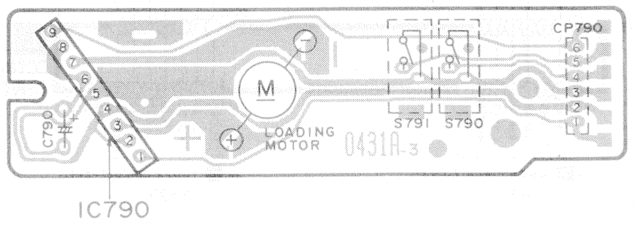
...ES ⎓ 1.5V (R20P/LR20 OR EQUIVALENT)


(REP1303D)
D655
CP651A
MEMORY BACK-UP FOR COMPUTER/CLOCK
BATTERY 4 UM-3 BATTERIES ⎓ 6V
(R6P/LR6 OR EQUIVALENT)
0801CC
03D)

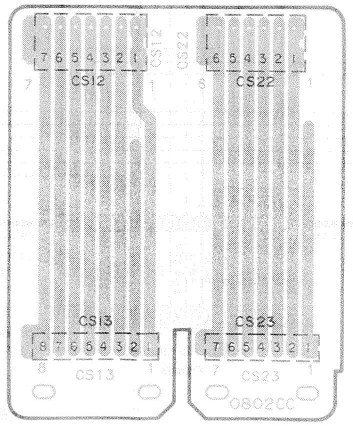
N HEADPHONES P. C. B.
(REP1301C)


Q409
Q509
W604
R534
R434
R423
R424
R524
R523
CP605
JK603
ECB
0799CB
PHONES

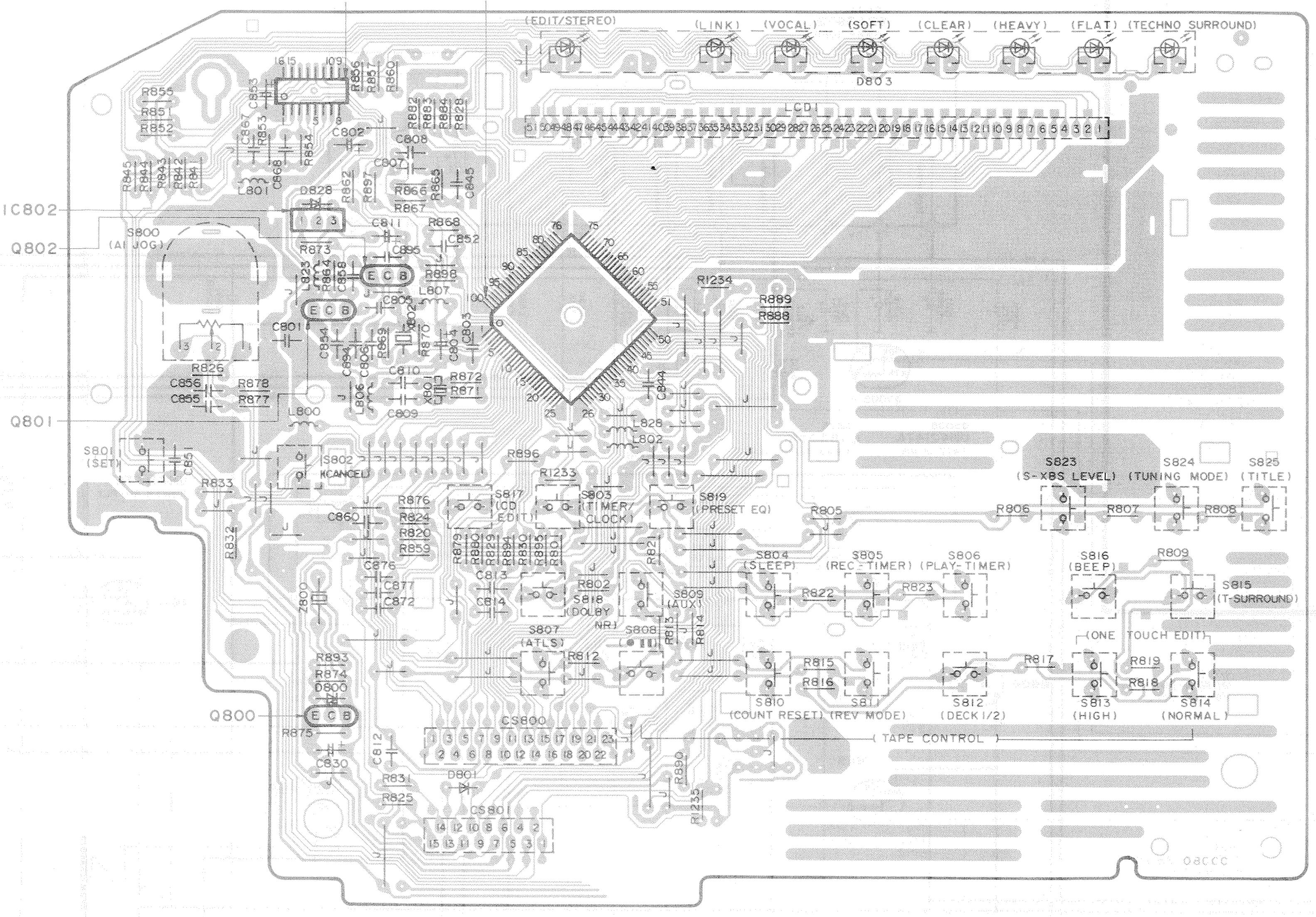
M LOADING MOTOR P. C. B. (REP0767)


C790
M
LOADING MOTOR
S791
S790
CP790
0431A-3
IC790

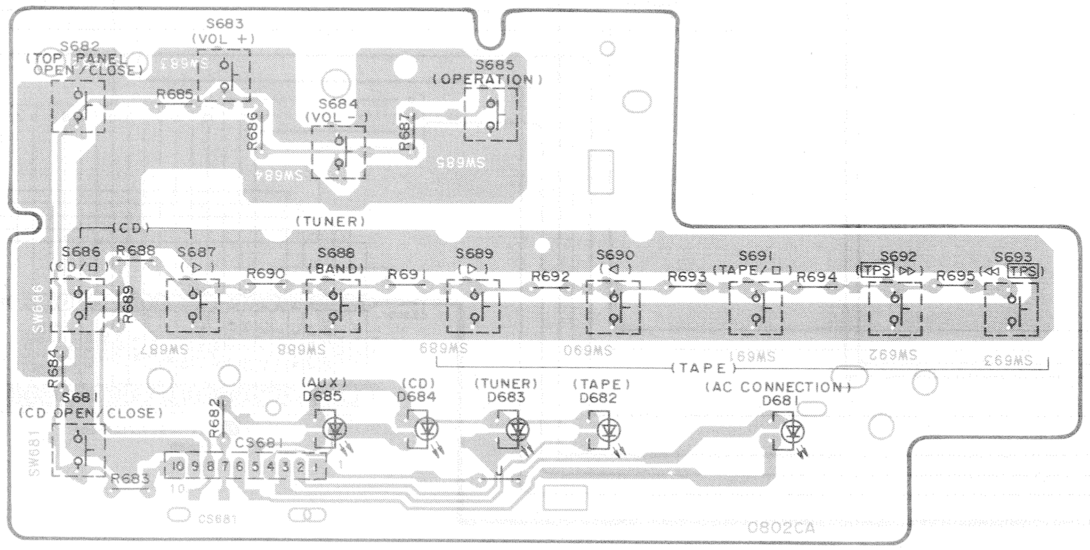
L CONNECTOR (1) P.C.B.
(REP1304B)


CS12
CS22
CS13
CS23
7 6 5 4 3 2 1
0802CC

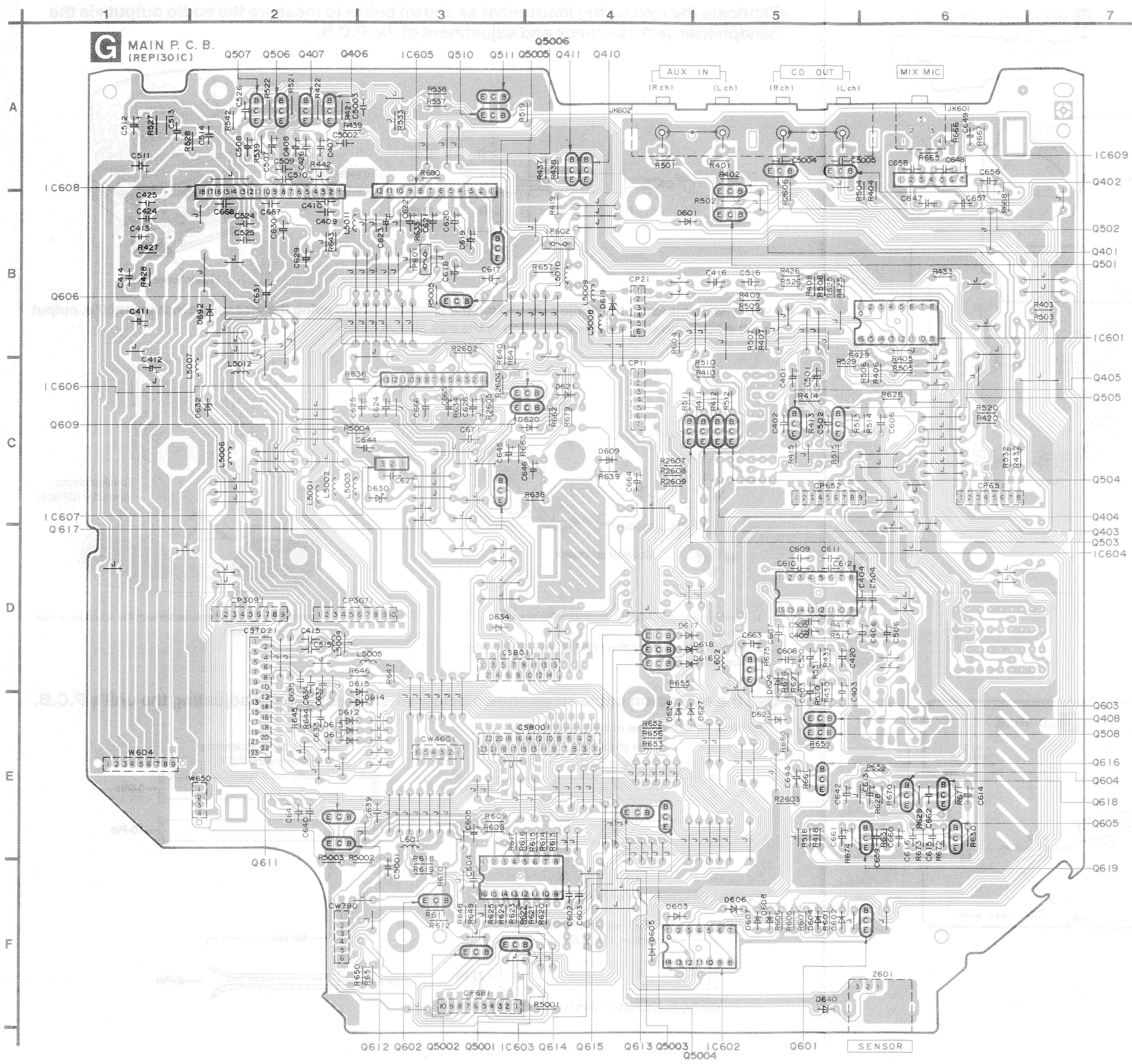
F L C D P. C. B. (REP1302C)

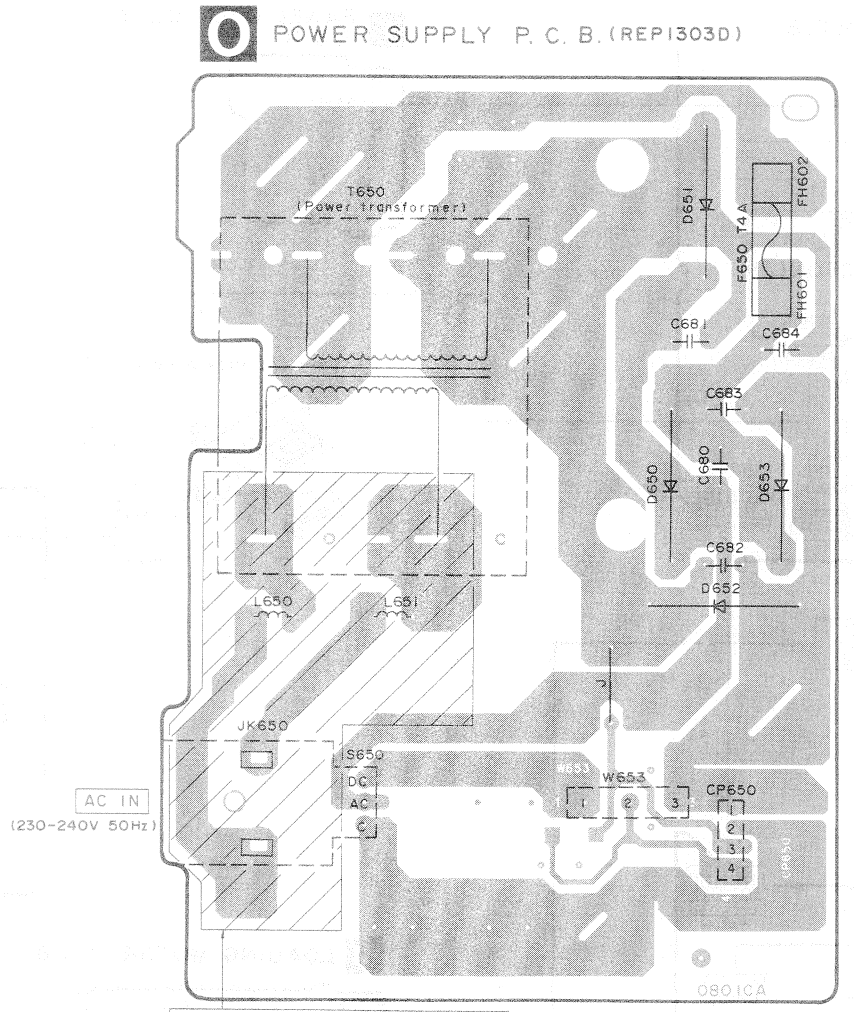

IC805
IC801
(EDIT/STEREO)
(LINK)
(VOCAL)
(SOFT)
(CLEAR)
(HEAVY)
(FLAT)
(TECHNO SURROUND)
D803
LCD1
IC802
Q802
Q801
Q800
S800 (AI JOG)
R855
R851
R852
R854
C802
C808
C807
C811
C801
C856
C855
R826
R878
R877
L800
L801
D828
R873
R868
R866
R867
R869
R870
R872
R871
C852
C810
C809
R1234
R889
R888
L828
L802
R896
R1233
R833
R832
C850
R876
R824
R820
R859
C876
C877
C872
C813
C814
S801 (SET)
S802 (CANCEL)
S817 (CD EDIT)
S803 (TIMER/CLOCK)
S819 (PRESET EQ)
R805
S804 (SLEEP)
S805 (REC-TIMER)
S806 (PLAY-TIMER)
R822
R823
R802
S818 (DOLBY NR)
S809 (AUX)
S808
S807 (ATLS)
R612
R813
R814
S823 (S-XBS LEVEL)
S824 (TUNING MODE)
S825 (TITLE)
R806
R807
R808
S816 (BEEP)
R809
S815 (T-SURROUND)
(ONE TOUCH EDIT)
R815
R816
R817
R819
R818
S810 (COUNT RESET)
S811 (REV MODE)
S812 (DECK 1/2)
S813 (HIGH)
S814 (NORMAL)
(TAPE CONTROL)
R893
R874
D800
R875
C812
C830
CS800
D801
CS801
R831
R825
R890
R1235
0800

J OPERATION P. C. B. (REP1304B)

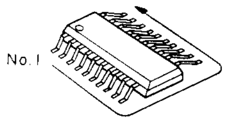

S682 (TOP PANEL OPEN/CLOSE)
S683 (VOL +)
R685
S685 (OPERATION)
S684 (VOL -)
R686
R687
(CD)
(TUNER)
S686 (CD/II)
R688
R689
S687 (▷)
R690
S688 (BAND)
R691
S689 (▷)
R692
S690 (◁)
R693
S691 (TAPE/II)
R694
S692 (TPS ▷▷)
R695
S693 (◁◁ TPS)
(TAPE)
R684
S681 (CD OPEN/CLOSE)
R682
(AUX) D685
(CD) D684
(TUNER) D683
(TAPE) D682
(AC CONNECTION) D681
CS681
R683
0802CA

■ PRINTED CIRCUIT BOARD DIAGRAM

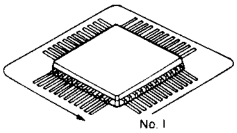

1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
G
MAIN P. C. B.
(REP1301C)
Q507 Q506 Q407 Q406 IC605 Q510 Q511 Q5005 Q5006 Q411 Q410
AUX IN (Rch) (Lch)
CD OUT (Rch) (Lch)
MIX MIC
JK602
JK601
IC609
Q402
Q502
Q401
Q501
IC601
Q405
Q505
Q504
Q404
Q403
Q503
IC604
Q603
Q408
Q508
Q616
Q604
Q618
Q605
Q619
IC608
Q606
IC606
Q609
IC607
Q617
Q611
W604
W650
CW790
CP309
CP307
CS7021
CS801
CS8001
CW4601
CP681
CP652
CP651
CP21
CP11
Z601
D640
Q612 Q602 Q5002 Q5001 IC603 Q614 Q615 Q613 Q5003 Q5004 IC602 Q601
SENSOR


O
POWER SUPPLY P. C. B. (REP1303D)
T650
(Power transformer)
D651
F650 T4 A
FH602
FH601
C681
C684
C683
D650
C680
D653
C682
D652
L650
L651
JK650
S650
DC
AC
C
W653
CP650
AC IN
(230-240V 50Hz)
080ICA

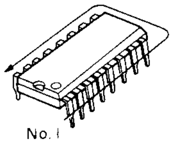
CAUTION
RISK OF ELECTRIC SHOCK
AC voltage line. Please do not
touch this portion.



TA7358FMATEL	8Pin	TA8132AFET	24Pin
BU4066BF-E2	14Pin	M51167BFP-E1	36Pin
BU2040F-T2	16Pin	AN8802SCE1V	32Pin
CXA1102M-T4	16Pin	M51137FP-E1	42Pin

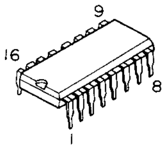


MN66271RA	80Pin
MND2410READ	100Pin

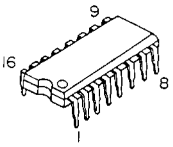


MC74HC04AN	14Pin
MC14052BCP	16Pin

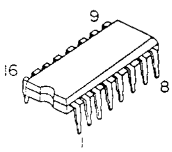
M50253P



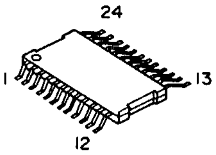
LM7001

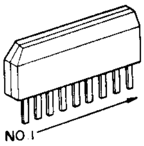


TA8173AP



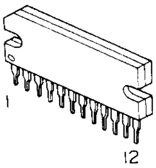
AN8389SE1



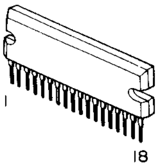


TA2011S	7Pin
TA7291S	9Pin

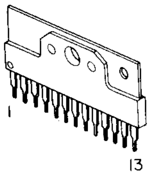
XRA3932



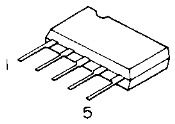
LA4645N



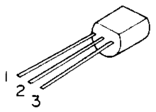
LA5605N



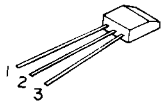
BA7755

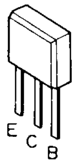


S8053HNB-T
RE5RA50AA-TZ



DN6851ALB

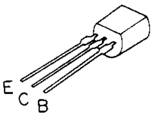




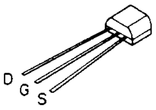
2SA1309AIRTA
2SA1309RTA
2SB1030RTA
2SC2786LTA
2SC3311AIRTA
2SC3311AISTA
2SC3311RTA
2SC3312RTA
2SC3313BTA
2SD1450STA
UN411FTA
UN4111TA

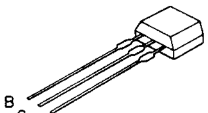
UN4210TA
UN4213TA
UN4214TA
UN4215TA
UN4113TA
UN421FTA

2SC1674LTA
2SD965RTA



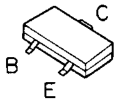
2SKCTA
2SK381CDTA
2SJ40CDTA



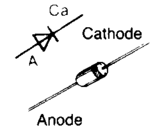


RVTDTC114TST
RVTDTA123JST
RVTDTA143EST
RVTDTA143XST
2SC1740SLNET
2SC2389SSTA

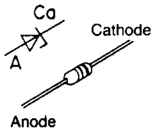
2SB709STW



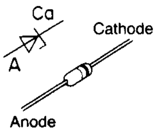
MA165
RVD1SS133TA


Ca
Cathode
A
Anode

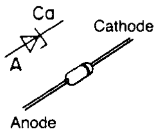
MA4051MTA


Ca
Cathode
A
Anode

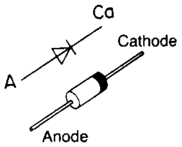
MA4130M
MA4240MTA


Ca
Cathode
A
Anode

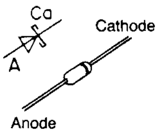
RVDMTZ4R7BTA
RVDMTZ6R8BTA


Ca
Cathode
A
Anode

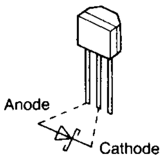
1N5402B-M21


Ca
Cathode
A
Anode

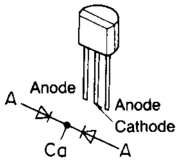
RB441QT77


Ca
Cathode
A
Anode

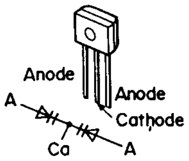
1SS293TPE4


Anode
Cathode

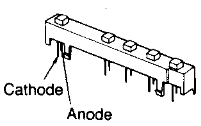
KV1560NT


A
Anode
Anode
Cathode
Ca
A

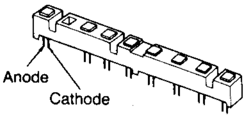
1SV147T4MATU


Anode
A
Anode
Cathode
Ca
A

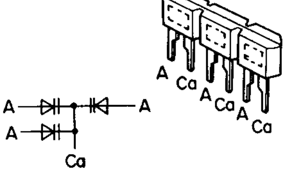
LN051583P


Cathode
Anode

LN088584P

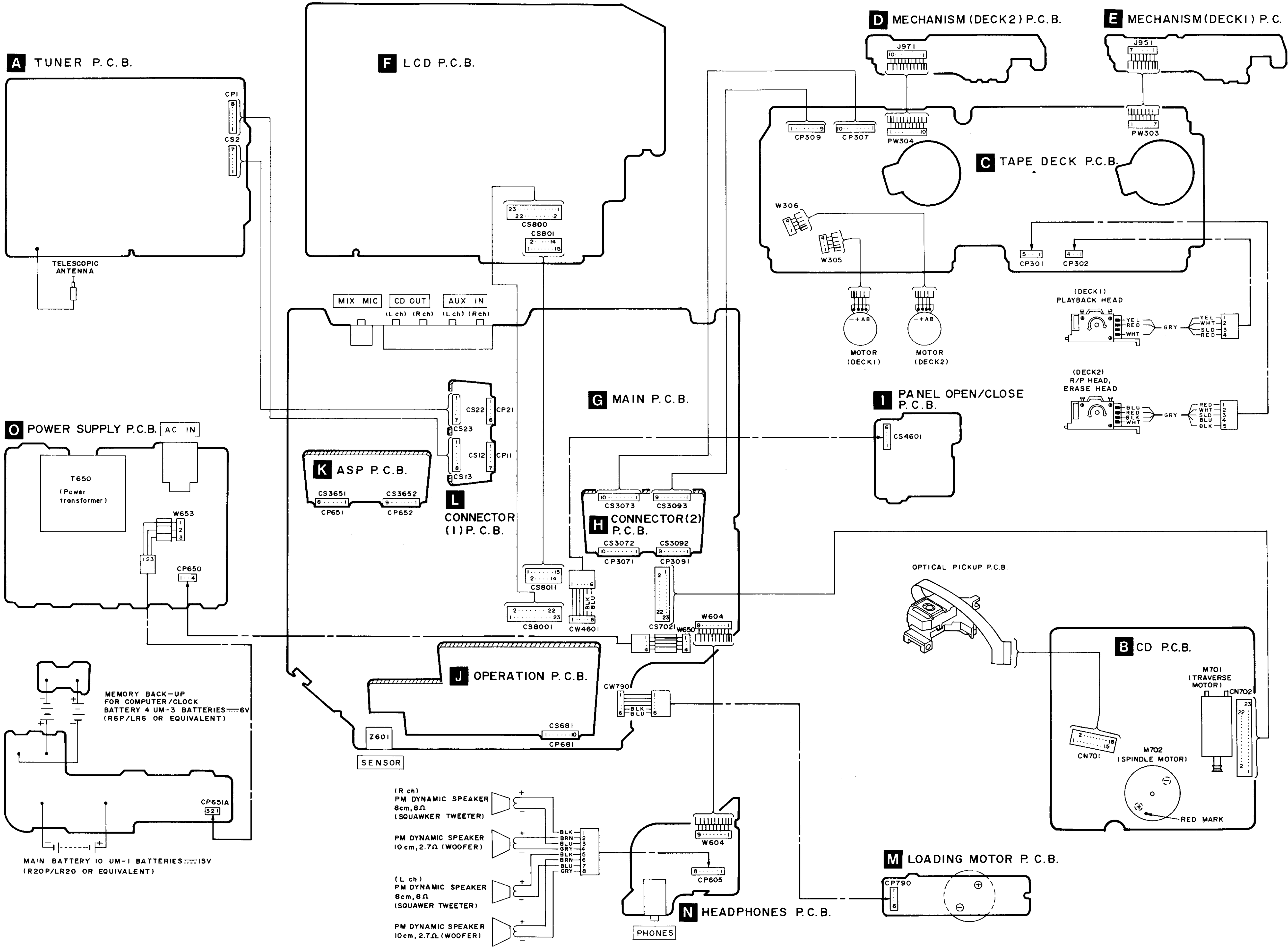

Anode
Cathode

RVDKV1235ZB


A
Ca
A
Ca
A
Ca
A
A
A
Ca

●**This printed circuit board diagram may be modified at any time with the development of new technology.**

■ WIRING CONNECTION DIAGRAM


A TUNER P.C.B.
CP1
CS2
TELESCOPIC ANTENNA
F LCD P.C.B.
CS800
CS801
D MECHANISM (DECK2) P.C.B.
J971
E MECHANISM (DECK1) P.C.B.
J951
CP309
CP307
PW304
PW303
C TAPE DECK P.C.B.
W306
W305
CP301
CP302
MOTOR (DECK1)
MOTOR (DECK2)
(DECK1) PLAYBACK HEAD
YEL
RED
WHT
GRY
SLD
(DECK2) R/P HEAD, ERASE HEAD
BLU
BLK
MIX MIC
CD OUT
AUX IN
(L ch) (R ch)
CS22
CP21
CS23
CS12
CP11
CS13
K ASP P.C.B.
CS3651
CS3652
CP651
CP652
L CONNECTOR (1) P.C.B.
G MAIN P.C.B.
I PANEL OPEN/CLOSE P.C.B.
CS4601
H CONNECTOR (2) P.C.B.
CS3073
CS3093
CS3072
CS3092
CP3071
CP3091
CS8011
CS8001
CW4601
CS7021
W650
W604
O POWER SUPPLY P.C.B.
AC IN
T650 (Power transformer)
W653
CP650
MEMORY BACK-UP FOR COMPUTER/CLOCK BATTERY 4 UM-3 BATTERIES ⎓ 6V (R6P/LR6 OR EQUIVALENT)
CP651A
MAIN BATTERY 10 UM-1 BATTERIES ⎓ 15V (R20P/LR20 OR EQUIVALENT)
J OPERATION P.C.B.
CW790
CS681
CP681
Z601
SENSOR
(R ch) PM DYNAMIC SPEAKER 8cm, 8Ω (SQUAWKER TWEETER)
PM DYNAMIC SPEAKER 10 cm, 2.7Ω (WOOFER)
(L ch) PM DYNAMIC SPEAKER 8cm, 8Ω (SQUAWER TWEETER)
PM DYNAMIC SPEAKER 10cm, 2.7Ω (WOOFER)
BRN
W604
CP605
N HEADPHONES P.C.B.
PHONES
OPTICAL PICKUP P.C.B.
B CD P.C.B.
M701 (TRAVERSE MOTOR)
CN702
CN701
M702 (SPINDLE MOTOR)
RED MARK
M LOADING MOTOR P.C.B.
CP790

■ PREPA

•Fabricate th
headphone

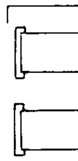
To Headphone
jack

•If you wish to r
from the headp

1. Remove 2 sc
connector.
2. Remove the
arrangemen

•Use the exte

Part No.: RFK

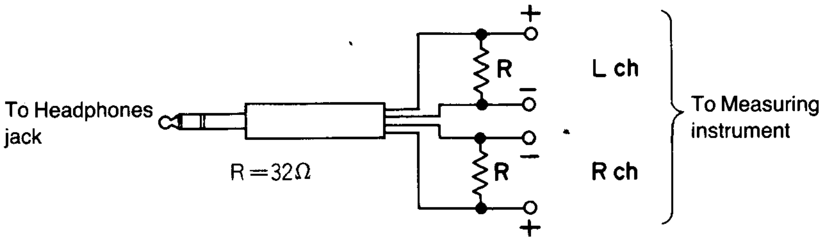


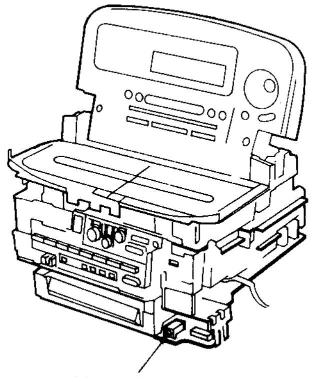
Part No.: RFK

CD P.C

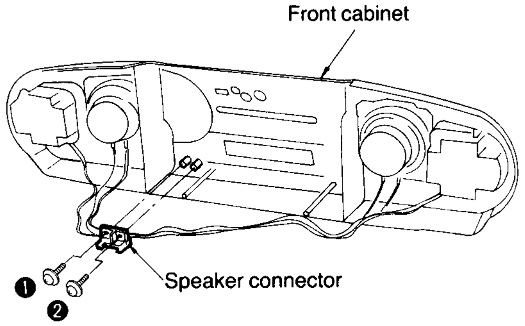
■ PREPARATIONS FOR CHECK AND ADJUSTMENT OF P.C.B.

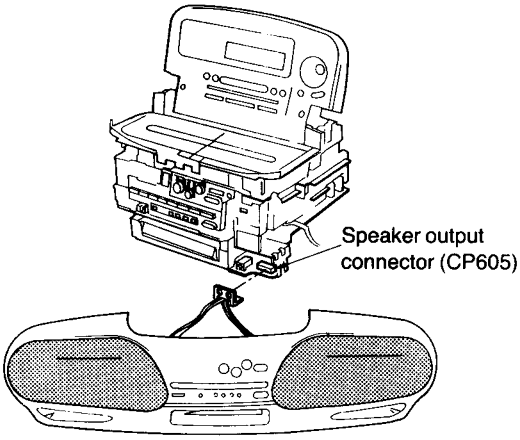
•Fabricate the measuring instrument as shown below to measure the audio output via the headphones jack for check and adjustment of the P.C.B.


+
R
L ch
To Headphones jack
–
To Measuring instrument
–
R=32Ω
R
R ch
+


Headphones jack

•If you wish to measure the audio output from the speaker without using the measuring instrument (i.e. output from the headphones), make connection in the way shown below.

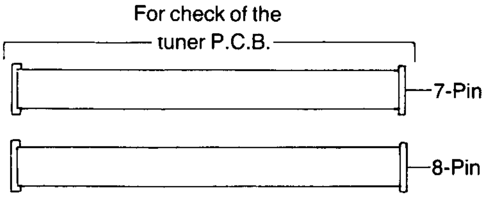

Front cabinet
❶
❷
Speaker connector

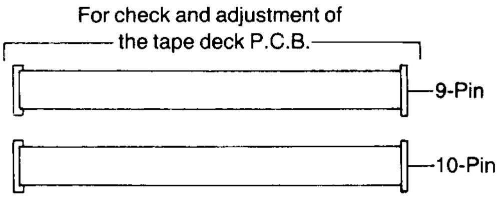

Speaker output connector (CP605)

1. Remove 2 screws (❶, ❷) to remove the speaker connector.
2. Remove the speaker cable from the boss used for wire arrangement.
3. Connect the speaker connector with the speaker output connector (CP605).

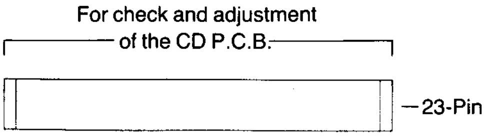
•Use the extension cable kit as shown below when checking and adjusting the unit's P.C.B.

Part No.: RFKZ0024 (set of 4 extension cables)

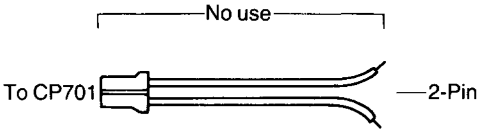

For check of the tuner P.C.B.
7-Pin
8-Pin


For check and adjustment of the tape deck P.C.B.
9-Pin
10-Pin

Part No.: RFKZ0009 (set of 2 extension cables)

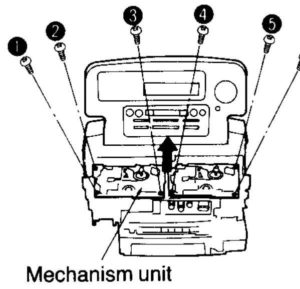

For check and adjustment of the CD P.C.B.
23-Pin

CD P.C.B. (CS702)—MAIN P.C.B. (CS7021)

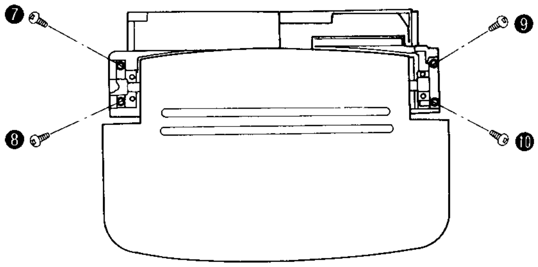

No use
To CP701
2-Pin

•Check and adjustment of Tuner P.C.B.

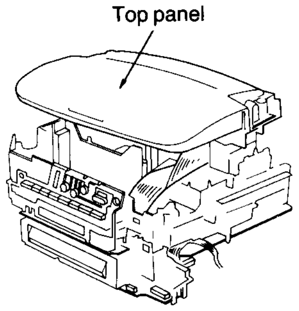
1. Follow the disassembly instructions of Ref. No. 4 "Removal of the main unit" to remove the main unit. (Refer to page 8.)


❶
❷
❸
❹
❺
❻
Mechanism unit

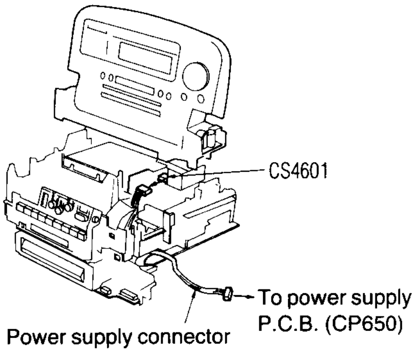
2. Remove 6 screws (❶~❻).
3. Remove the mechanism unit.



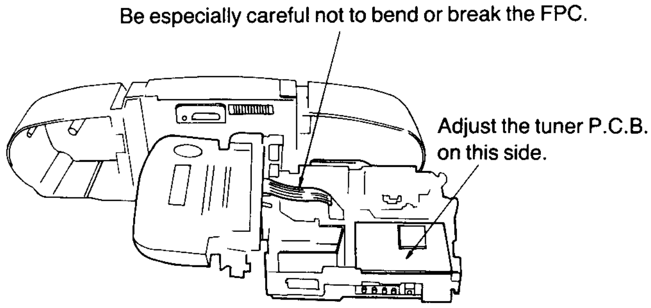
4. Remove 4 screws (❼~❿).



5. Lift up the top panel.

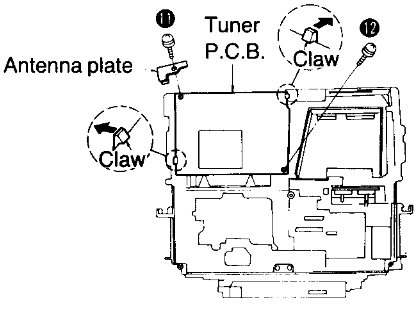

CS4601
To power supply P.C.B. (CP650)
Power supply connector

6. Open the top panel.
7. Release the connector (CS4601).
8. Connect the power supply connector for power P.C.B. (CP650).

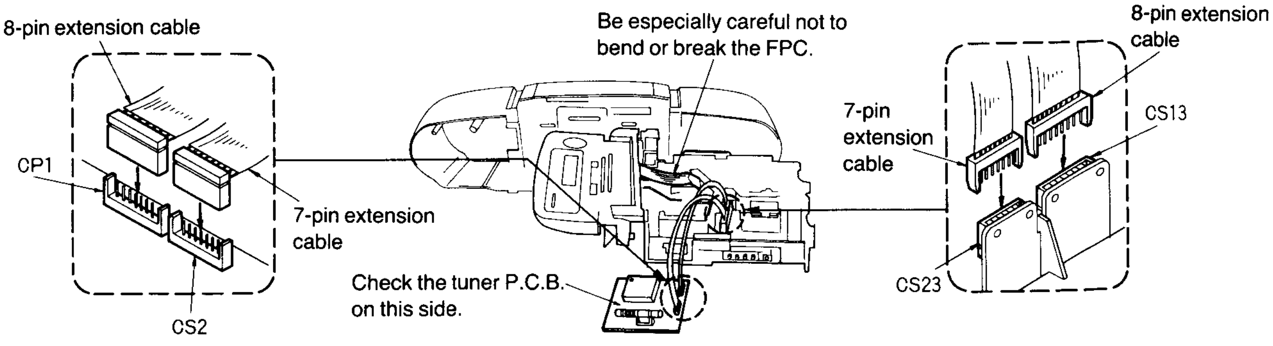

Be especially careful not to bend or break the FPC.
Adjust the tuner P.C.B. on this side.

9. Place the main unit and top panel as shown above.

•Check the tuner P.C.B.


⓫
Tuner P.C.B.
Claw
⓬
Antenna plate
Claw

10. Remove 2 screws (⓫~⓬).
11. Release 2 claws in the direction of arrows.
12. Remove the tuner P.C.B.

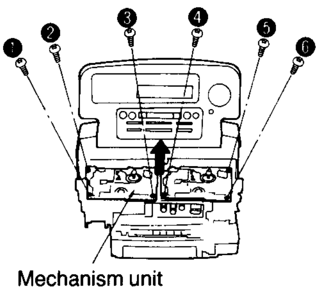

8-pin extension cable
CP1
7-pin extension cable
CS2
Be especially careful not to bend or break the FPC.
Check the tuner P.C.B. on this side.
7-pin extension cable
8-pin extension cable
CS13
CS23

13. Connect the 8-pin connector and 7-pin connector of the extension cable (RFKZ0024).

•Adjustment the tuner P.C.B.

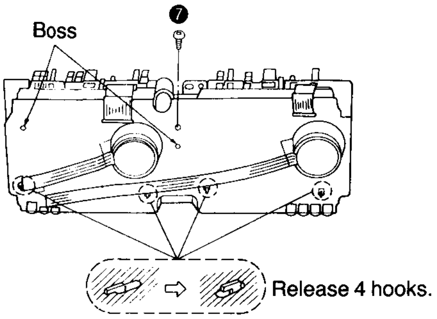
•Check and adjustmet of tape deck P.C.B.

1. Follow the disassembly instructions of Ref. No. 5 "Removal of the cassette panel" to remove the cassette panel. (Refer to page 9.)

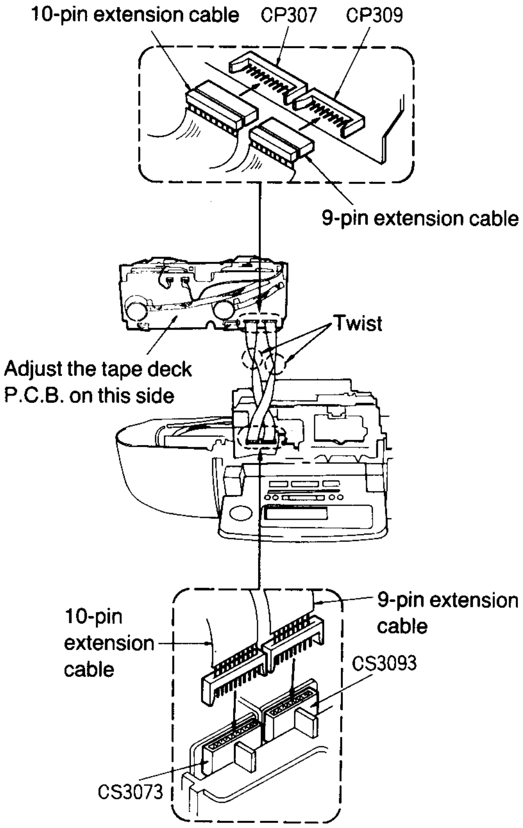

❶
❷
❸
❹
❺
❻
Mechanism unit

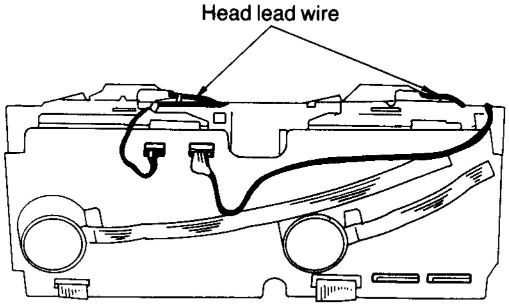
2. Remove 6 screws (❶~❻).
3. Remove the mechanism unit.

4. Connect the 9-pin connector and 10-pin connector of the extension cable (RFKZ0024).
5. Connect the power supply connector for power supply P.C.B. (CP650).

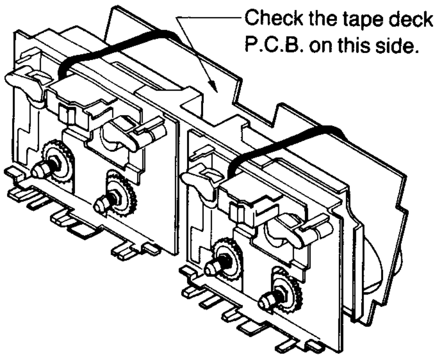

Boss
❼
Release 4 hooks.

6. Remove the screw (❼).
7. Release 2 bosses.
8. Release 4 claws.


10-pin extension cable
CP307
CP309
9-pin extension cable
Twist
Adjust the tape deck P.C.B. on this side
10-pin extension cable
9-pin extension cable
CS3093
CS3073


Head lead wire

9. Place the tape deck unit as shown above.
10. Release 2 head lead wires from hook.

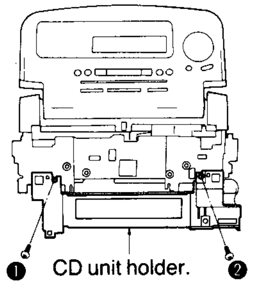

Check the tape deck P.C.B. on this side.

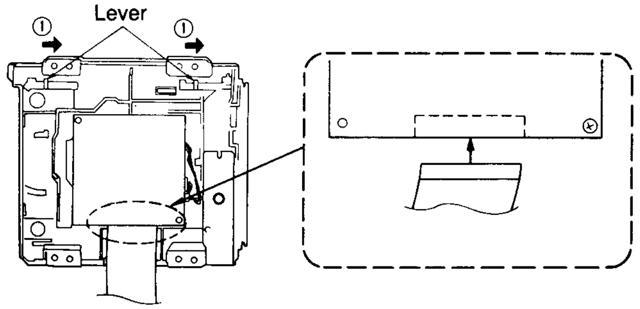
11. Place the tape deck P.C.B. as shown above.

•Be sure to check the tape deck P.C.B. under this condition.

•Check and adjustment of CD P.C.B.

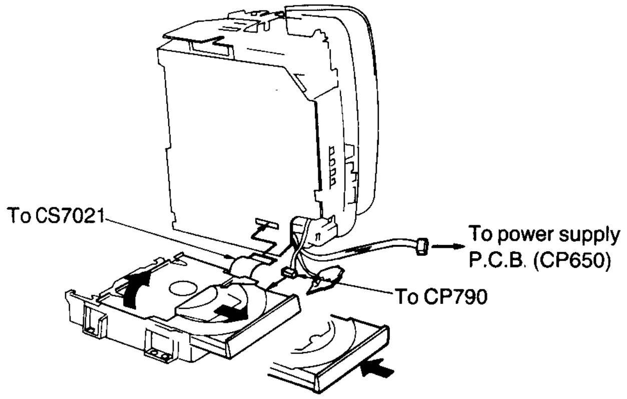
1. Follow the disassembly instructions of Ref. No. 7 "Removal of the CD unit" to remove the CD unit. (Refer to page 9.)

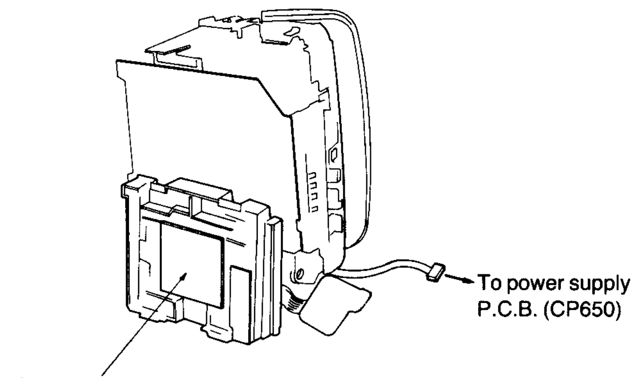

❶
CD unit holder.
❷



2. Remove 2 screws (❶, ❷).
3. Remove the CD unit holder.

4. Slide the lever fully in the direction of arrow ① and pull the CD P.C.B. toward you.
5. Connect the extension cable (RFKZ0009) to the CD P.C.B.


To CS7021
To power supply P.C.B. (CP650)
To CP790


To power supply P.C.B. (CP650)

Check and adjust the CD on this side.

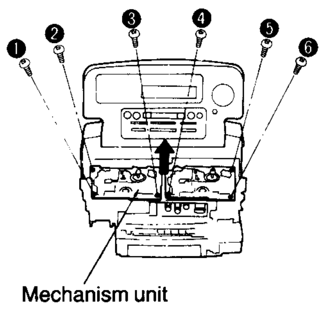
6. Connect the CD unit to the main P.C.B.
7. Connect the power supply connector to the power supply P.C.B. (CP650).
8. Press the CD/□ button. (Power is turned on and the deck is set to the CD function mode.)
9. Press the CD OPEN/CLOSE button to open the disc tray.
10. Load the test disc into the disc tray and press the CD OPEN/CLOSE button to close the disc tray.

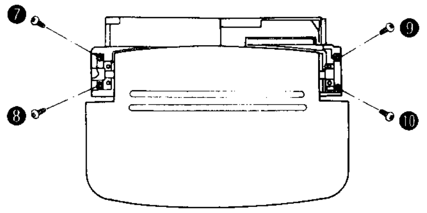
11. Place the CD unit as shown above.

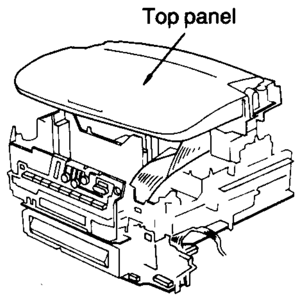
- Be sure to check and adjust the CD P.C.B. under this condition.

•Check of electronic volume P.C.B.

1. Follow the disassembly instruction of Ref. No. 4 "Removal of the main unit" to remove the main unit. (Refer to page 8.)


❶
❷
❸
❹
❺
❻
Mechanism unit

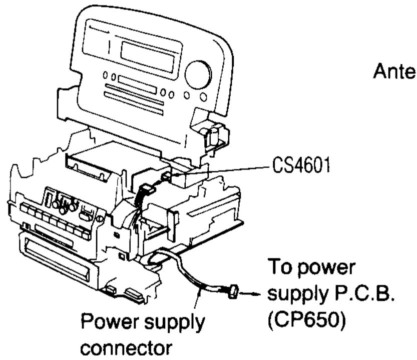


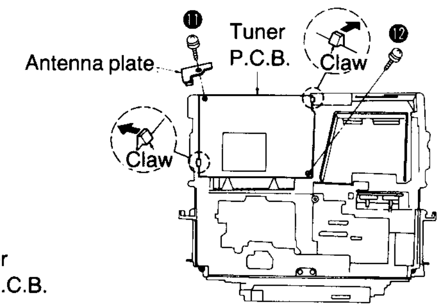


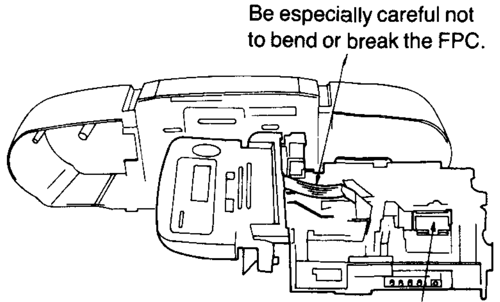
2. Remove 6 screws (❶~❻).
3. Remove the mechanism unit.

4. Remove 4 screws (❼~❿).

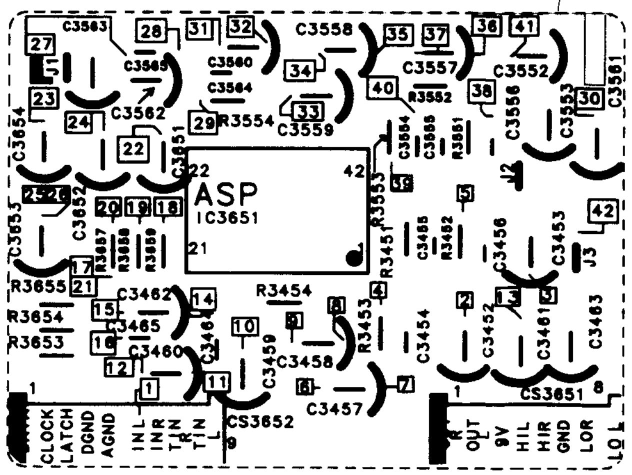
5. Lift the top panel.


CS4601
To power supply P.C.B. (CP650)
Power supply connector


⓫
Tuner P.C.B.
Claw
⓬
Antenna plate
Claw



Be especially careful not to bend or break the FPC.


ASP
IC3651
CS3651
CS3652
CLOCK
LATCH
DGND
AGND
INL
INR
TIN R
TIN L
OUT R
OUT L
9V
HIL
HIR
GND
LOR
LOL

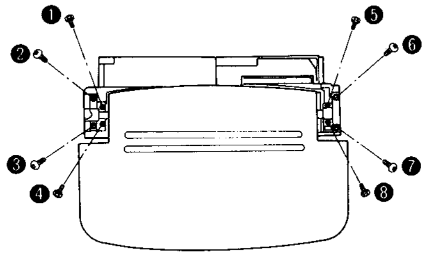
6. Open the top panel.
7. Release the connector (CS4601).
8. Connect the power supply connector to the power P.C.B. (CP650).
9. Remove 2 screws (⓫~⓬).
10. Release 2 claws in the direction of arrow.
11. Remove the tuner P.C.B.
12. Place the top panel as shown above.

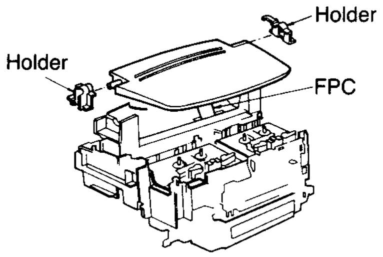
- Check the electronic volume P.C.B. under this condition.

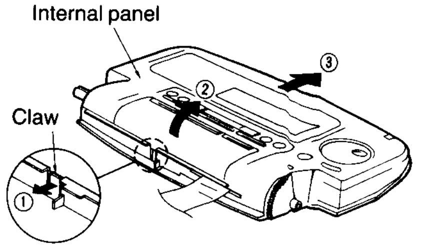
> IC3651 is attached to the reverse side (soldered side) of the electronic volume P.C.B. Measure the terminal voltage of IC3651 on the surface of the P.C.B. by referring to the IC terminal No. indicated in □ (square) on the surface.

•Check of LCD P.C.B.

1. Follow the disassembly instructions of Ref. No. 4 "Removal of the main unit" to remove the main unit. (Refer to page 8.)



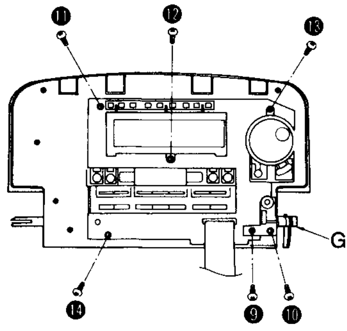

Holder
Holder
FPC

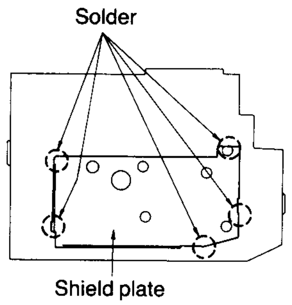

Internal panel
Claw
①
②
③

2. Remove 8 screws (❶~❽).

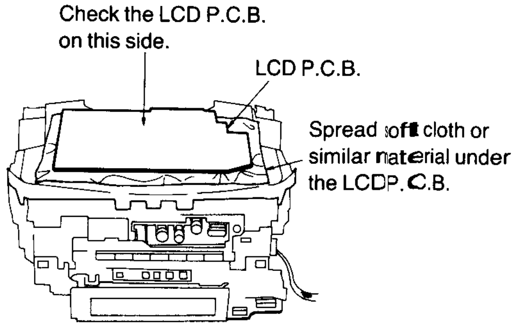
3. Lift the top panel. At this time, the two holders will be removed. Note: Be especially careful not to break the FPC.

4. Keep the claw pressed in the direction of arrow ① and lift slightly the internal panel in the direction of arrow ② and slide the panel in the direction of arrow ③ to remove.


⓫
⓬
⓭
Gear
⓮
❾
❿


Solder
Shield plate

Check the LCD P.C.B. on this side.



Spread soft cloth or similar material under the LCD P.C.B.

5. Remove 2 screws (❾, ❿).
6. Remove the gear.
7. Remove 4 screws (⓫~⓮).

8. Unsolder the five solderd points and remove the shield plate.

9. Place the LCD P.C.B. as shown above.
10. Connect the power supply connector to CP650 on the power supply P.C.B.

- Check the LCD P.C.B. under this condition.

■ MEASUREMENTS AND ADJUSTMENTS

<TUNER SECTION>

•ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

- •Set power source voltage to 15 V DC.
- •Set power switch to ON.
- •Set function switch to TUNER/MW or LW.
- •Set volume level to 5.
- •Output of signal generator should be no higher than necessary to obtain an output reading.

•MW-RF ALIGNMENT

(The parts other than the ones listed below are aligned at the factory before they are supplied. Therefore, alignment of those parts is unnecessary when used for replacement.)

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Refer to Fig. 2.)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	594 kHz	Tune to signal	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 1 and then connect the lead wires of the plug to the measuring instrument.	(*1) L9-1 (MW ANT Coil)	Adjust for maximum output. Adjust L9-1 by moving coil along the ferrite core.
〃	1,503 kHz	〃	〃	CT1 (MW ANT Trimmer)	Adjust for maximum output.

(*1) Fix antenna coil with wax after completing alignment.

•LW-RF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Refer to Fig. 2.)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	162 kHz	Tune to signal	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 1 and then connect the lead wires of the plug to the measuring instrument.	(*1) L9-2 (LW ANT Coil)	Adjust for maximum output. Adjust L9-2 by moving coil along the ferrite core.
〃	270 kHz	〃	〃	CT2 (LW ANT Trimmer)	Adjust for maximum output.

(*1) Fix antenna coil with wax after completing alignment.

•ALIGNMENT POINT

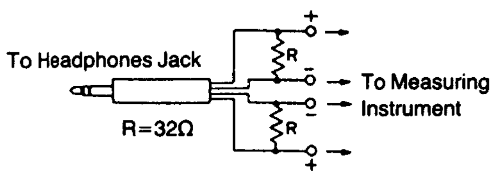


Fig. 1

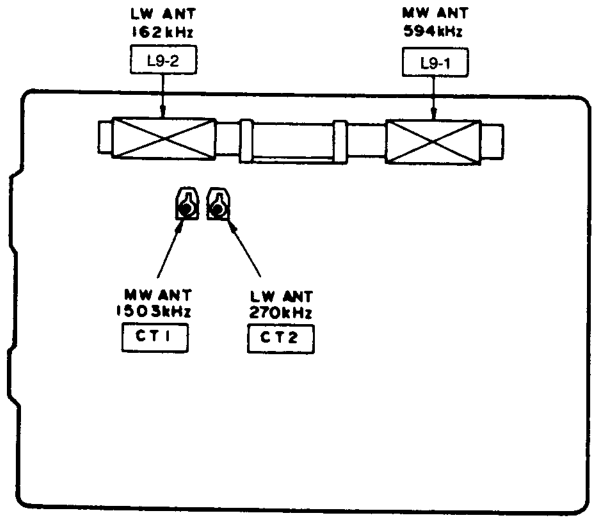


Fig. 2

<CASSETTE DECK SECTION>

•ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

- •Set power source voltage to 15 V DC.
- •Set power switch to ON.
- •Set function switch to TAPE.
- •Set volume control to 5.
- •Output of signal generator should be no higher than necessary to obtain an output reading.

•HEAD AZIMUTH ALIGNMENT

TEST TAPE	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	SPECIFICATION	REMARKS
QZZCFM (8 kHz, −20 dB)	Headphones Jack (32Ω) (Fabricate the plug shown in Fig. 1 and then connect the lead wires of the plug to the measuring instrument.)	Azimuth Screw (Refer to Fig. 3.)	maximum output.	1. Playback mode. 2. Adjust for maximum output.

•TAPE SPEED ALIGNMENT

TEST TAPE	INDICATOR (FREQUENCY COUNTER)	ADJUSTMENT	REMARKS
QZZCWAT (3 kHz, −10 dB)	Headphones Jack (32Ω) (Fabricate the plug shown in Fig. 1 and then connect the lead wires of the plug to the measuring instrument.	DECK 1 NORMAL SPEED .... VR303 DECK 2 HIGH SPEED .... VR301 DECK 2 NORMAL SPEED .... VR302 (Shown in Fig. 4.)	1. Insert test tape (QZZCWAT) in DECK 1 and start playback in forward direction. 2. Adjust **VR303** until the frequency is set to **3000±20 Hz**. •This frequency is defined as **F1**. 3. Start playback DECK 1 in reverse direction. 4. Adjust **VR303** until the frequency is set to **F1±40 Hz**. 5. Short the test point TP1 and TP2 to set the high speed mode. 6. Start playback DECK1 in forward direction. •This frequency is defined as **F2**. 7. Insert test tape (QZZCWAT) in DECK 2 and start playback in forward direction. 8. Adjust **VR301** until the frequency is set to **F2±40 Hz**. 9. Open the test point TP1 and TP2 to set the normal speed mode. 10. Start playback DECK 2 in forward direction. 11. Adjust **VR302** until the frequency is set to **3000±20 Hz**. •This frequency is defined as **F3**. 12. Start playback DECK 2 in reverse direction. 13. Adjust **VR302** until the frequency is set to **F3±40 Hz**.

•RECORD BIAS CHECK

TEST TAPE	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	SPECIFICATION	REMARKS
Use METAL tape, CrO_2 tape and Normal tape	TP6 ...(+) TP4 ...(−) (Shown in Fig. 5.)	——	METAL...27±2 mV CrO_2...18.5±2 mV Normal...13±1 mV	•Record mode

•PLAYBACK LEVEL ALIGNMENT

TEST TAPE	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig. 4.)	SPECIFICATION	REMARKS
QZZCFM (315 Hz, 0 dB)	TP9 ...L ch (+) TP2 ...(−) TP10 ...R ch (+)	**DECK 1** L ch...VR101 R ch...VR201 **DECK 2** L ch...VR102 R ch...VR202	−11 dBV (280 mV) ±1 dBV	1. Insert test tape (QZZCFM) and start playback. 2. Adjust VR until the electronic voltmeter reaches the value of **−11 dBV (280 mV)±1 dBV**.

•ALIGNMENT POINT

•Please refer to Circuit Board Diagram for test point locations.

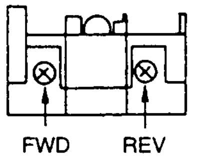


Fig. 3

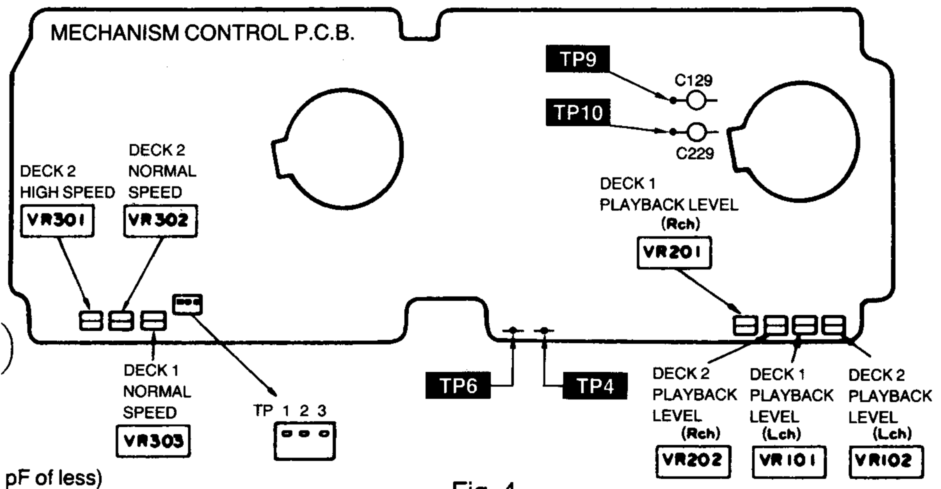
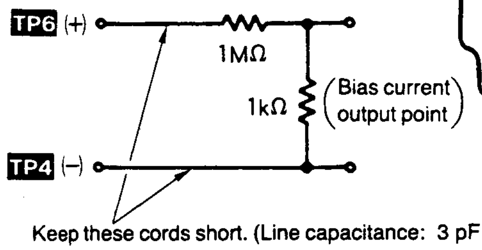

MECHANISM CONTROL P.C.B.
TP9
C129
TP10
C229
DECK 2 HIGH SPEED
VR301
DECK 2 NORMAL SPEED
VR302
DECK 1 PLAYBACK LEVEL (Rch)
VR201
DECK 1 NORMAL SPEED
VR303
TP 1 2 3
TP6
TP4
DECK 2 PLAYBACK LEVEL (Rch)
VR202
DECK 1 PLAYBACK LEVEL (Lch)
VR101
DECK 2 PLAYBACK LEVEL (Lch)
VR102

Fig. 4


TP6 (+)
1MΩ
1kΩ
(Bias current output point)
TP4 (−)

Keep these cords short. (Line capacitance: 3 pF of less)

•In order not ot influence the bias oscillation, divide the voltage with 1 MΩ and 1 kΩ resistors, and measure the voltage across the 1 kΩ resistor.

Fig. 5

<CD SECTION>

Caution:
•It is very dangerous to look at or touch the laser beam. (Laser radiation is invisible.)
With the unit turned "on", laser radiation is emitted from the pickup lens.
Avoid exposure to the laser beam, especially when performing adjustments.

•The CD P.C.B. requires manual adjustment for all of the following items:

(1) Best eye pattern (PD balance)
(2) Focus offset
(3) Tracking offset
(4) Focus gain
(5) Tracking gain
(6) Tracking balance
(7) Angle of elevation

In the RX-DT707 CD P.C.B., a servo processor (IC702: MN66271) automatically adjusts items ② through ⑥ of the seven items listed above. Auto adjustment is performed when:

1. A CD is loaded or replaced, or
2. The unit is turned on with a CD in the drive.

*The auto adjustment procedure is reset when the CD P.C.B. is turned off.

•Preparation for Adjustment

1. Set up the unit following the procedure described in "Checking and Adjusting the CD P.C.B.". (See page 47.)
2. After completing the setup procedure, switch the unit off then switch it on again (to adjust the unit with the CD unit placed in an upright position).

•Locations of Adjustments

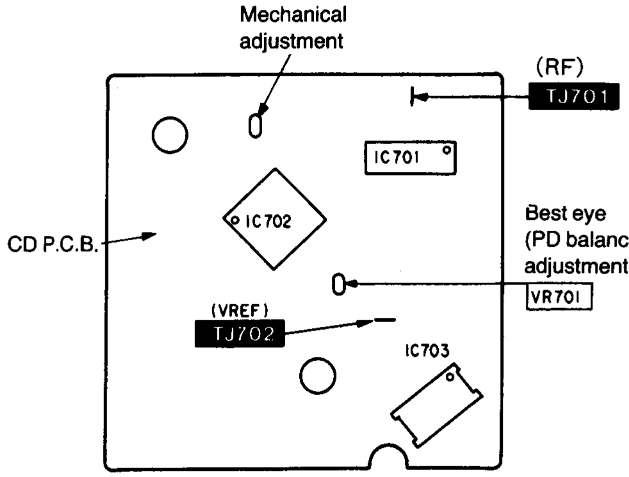
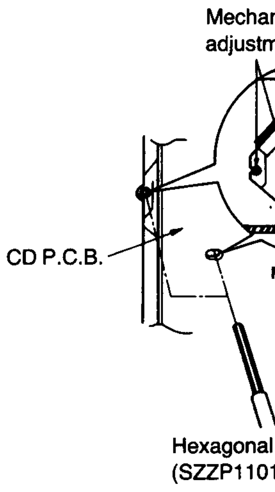

Mechanical adjustment
(RF)
TJ701
IC701
IC702
CD P.C.B.
Best eye (PD balance) adjustment
VR701
(VREF)
TJ702
IC703

Fig. 6


Mechanical adjustment
CD P.C.B.
Hexagonal wrench key (SZZP1101C)

Note: The elevation angle adjusting pot is accessible only after track 19 on e test disc, SZZP1056C, has been played.

Fig. 7

Measuring Instruments and Special Tools

•Test disc
1. Playability test disc (SZZP1054C)
2. Uneven test disc (SZZP1056C)

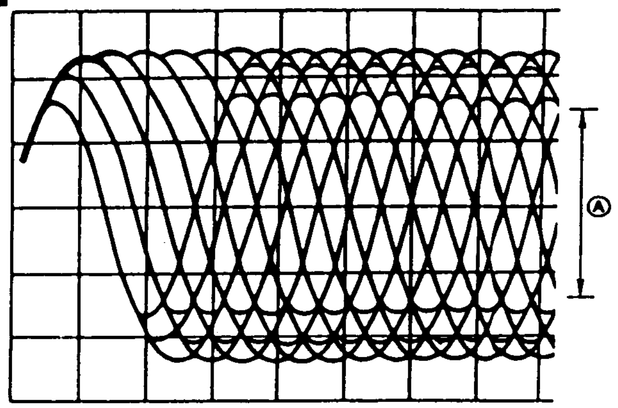
•Allen wrench (M2.0) (SZZP1101C)
•Oscilloscope

(1) MECHANICAL ADJUSTMENT

•When the traverse deck is replaced, making adjustments is not necessary. (The traverse deck ass'y is already adjusted.)

•Make adjustments to improve playability when the traverse deck has not been replaced. Make the electrical adjustments first.

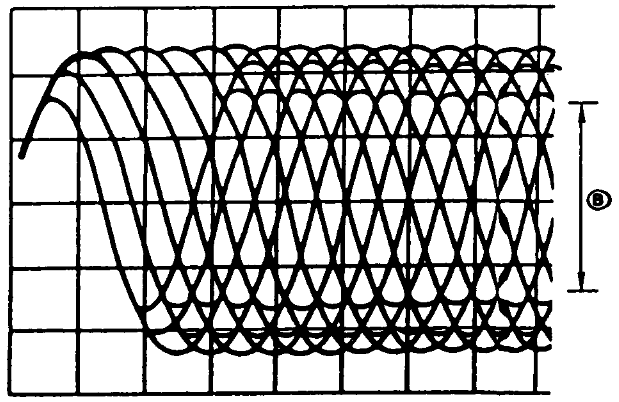
1. Connect the oscilloscope's CH. 1 probe across TJ701 (+) and TJ702 (VREF) on the Servo P.C.B.
   Oscilloscope setting:
   VOLT .... 200 mV
   SWEEP .... 0.5 μsec
   Input coupling .... AC
2. Switch the player power **ON**, and play track **19** on the test disc (SZZP1056C).
3. Leave the player in Play mode and place it as shown in the figure on the right.
4. Alternately adjust the two mechanical adjusting screws with the 2.0 mm allen wrench (SZZP1101C) until the RF signal amplitude on the oscilloscope is maximize. (Shown in Fig. 7)
5. After completing the adjustment, lock the **mechanical adjustments** with lock paint (RZZ0L01).



Ⓐ **Maximize the amplitude.**

(2) BEST EYE (PD BALANCE) ADJUSTMENT

1. Connect the oscilloscope's CH. 1 probe across TJ701 (+) and TJ702 (VREF) on the Servo P.C.B.
   Oscilloscope setting:
   VOLT .... 200 mV
   SWEEP .... 0.5 μsec
   Input coupling .... AC
2. **Switch the player power ON, and play the 1 kHz (track 1) on test disc (SZZP1054C).**
3. **Adjust VR701 until the RF signal eye pattern amplitude is maximized.** (Shown in Fig. 6)



Ⓑ **Maximize the amplitude.**

(3) CHECK OF PLAY OPERATION AFTER ADJUSTMENT

***Checking Skip Search**
1. Play an ordinary musical program disc.
2. **Press the skip button to check for normal skip search operation (in both the forward and reverse directions).**

***Checking Manual Search**
1. Play an ordinary musical program disc.
2. **Press the manual search button to check for smooth manual search operations at either low or high speed (in both the forward and reverse directions).**

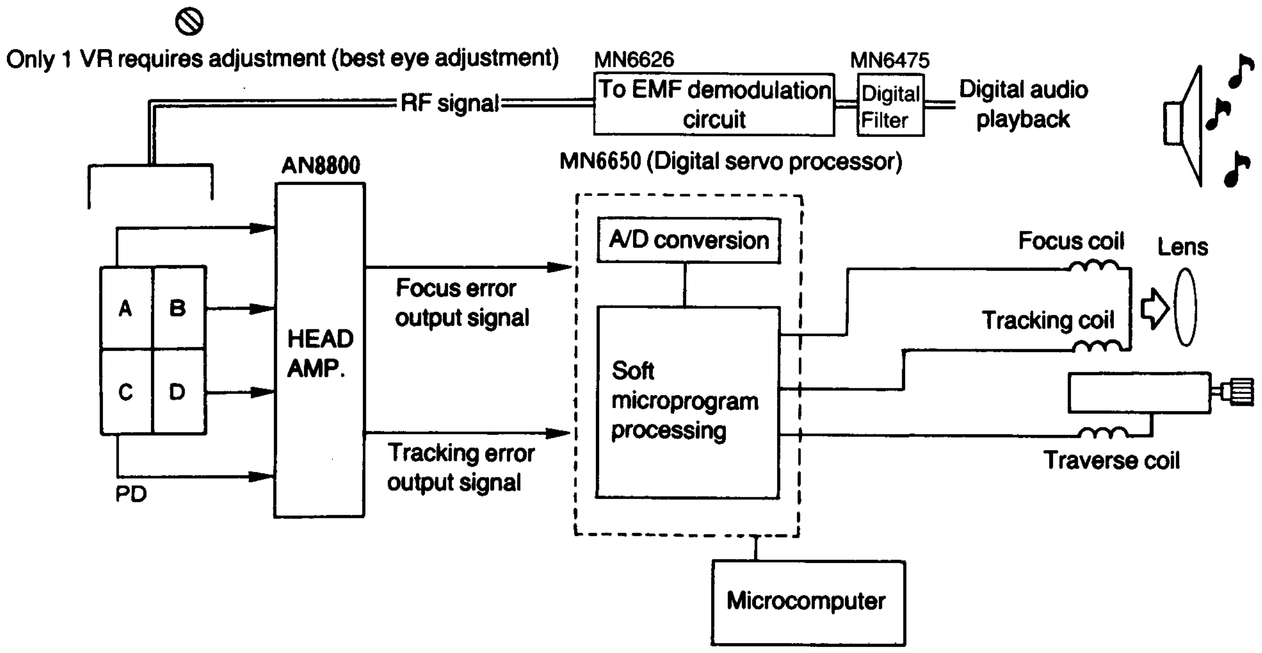
***Checking Playability**
1. **Play the 0.7 mm black dot and the 0.7 mm wedge on the test disc (SZZP1054C) and verify that no sound skip or noise occurs.**
2. **Play the middle tracks of the uneven test disc and verify that no sound skip or noise occurs.**

■ NEW DIGITAL SERVO CIRCUIT

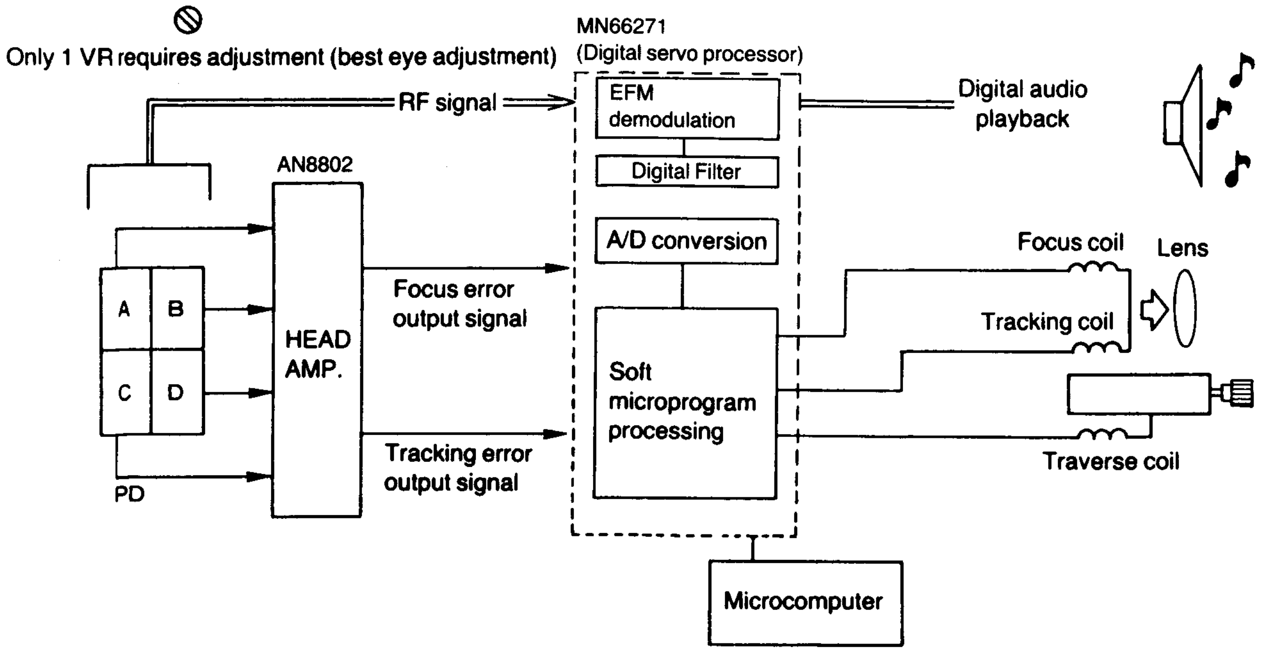
This model employs a new digital servo circuit. Compared to the old digital servo circuit, the following points have been improved.

1. **Reduced operated noise**
   Loading mechanism 2-level speed reducer
2. **Reduced access time**
   [(old) 2.9 seconds→(new) 1.9 seconds]
   Change of traverse gear
3. **Improved vibration resistance**
   Rubber and spring 2-level floating mechanism
   [fo=50 Hz (old)→20 Hz (new)]
4. **Reduced number of parts**
   Use of a single super IC tip
   3 chips (MN6626, MN6650, MN6475) are reduced to a single chip (MN66271)

DIGITAL SERVO SYSTEM (OLD)


Only 1 VR requires adjustment (best eye adjustment)
MN6626
MN6475
RF signal
To EMF demodulation circuit
Digital Filter
Digital audio playback
AN8800
MN6650 (Digital servo processor)
A/D conversion
Focus coil
Lens
A
B
C
D
HEAD AMP.
Focus error output signal
Soft microprogram processing
Tracking coil
Tracking error output signal
Traverse coil
PD
Microcomputer

DIGITAL SERVO SYSTEM (NEW)


Only 1 VR requires adjustment (best eye adjustment)
MN66271
(Digital servo processor)
RF signal
EFM demodulation
Digital Filter
Digital audio playback
AN8802
A/D conversion
Focus coil
Lens
A
B
C
D
HEAD AMP.
Focus error output signal
Soft microprogram processing
Tracking coil
Tracking error output signal
Traverse coil
PD
Microcomputer

•Refer to the service manual for Model No. SL-CH7 (Order No. AD9104084C8) for information on "DIGITAL SERVO SYSTEM" and "CHECKING THE OPERATION PROBLEMS ON THE TRAVERSE DECK (OPTICAL PICKUP)".

■ SELF DIAGNOSTIC FUNCTION

The Self Diagnostic Function is equipped with RX-DT707. Use this function only when you wish to check the following items.
(It is necessary to use the remote controller supplied with RX-DT707 for the self diagnostic function.)

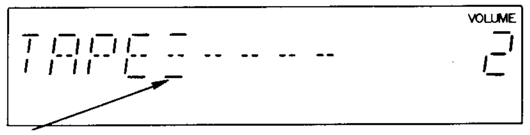
•Check of malfunction of switches (tact switch) on the cobra top.
Use the diagnostic function when a switch on the cobra top is inoperrative.

•Check of all indications on the LCD
•Check of LCD short-circuit
Use the diagnostic function when an LCD is not displayed correctly.

[How to set the self diagnostic function]

Follow the procedures outlined below to set the self diagnostic function mode before the self diagnostic function.

1. Connect the AC power cord of the RX-DT707 to an AC outlet and turn it on.
2. Press the "4" button and afterward "7" button the remote controller while keeping the TAPE/□ button pressed.
   The indication in Fig. 1 will be displayed.



-- : Denotes the RX-DT707 in the self diagnostic function

Fig. 1

•CHECK OF MALFUNCTION OF SWITCHES (Tact switch on the cobra top)

1. Press the "3" button on the remote controller.
   - •All indications on the LCD will disappear and the LED on the cobra top will blink sequentially from left to right.
2. If you press the buttons on the cobra top in the order of ①, ②, ③ and ④ shown in fig. 2, the LCD will appear in the order as shown in fig. 3.

The LEDs blink sequentially from left to right.

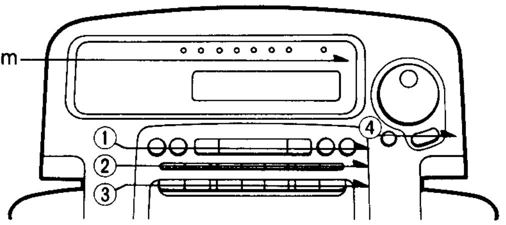


Fig. 2

•The LCD appears in the order as shown in Fig. 3.

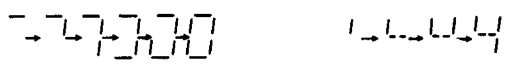


Fig. 3

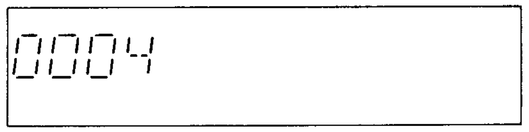


Fig. 4

If the display appears as shown in Fig. 4, the tact switch is normal. If a part of the LCD is not lit, set the self diagnostic function mode again to find the defective switch that cannot light the LCD.

•CHECK OF ALL INDICATIONS ON THE LCD

- •Press the "8" button on the remote controller. All indications will appear for about 1 second on the LCD. (Refer to Fig. 5.)
  If an indication is not displayed, the LCD or the LCD drive system is defective.

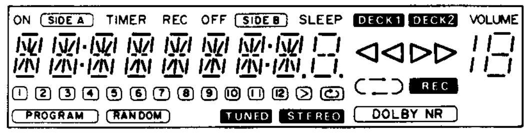

ON
SIDE A
TIMER
REC
OFF
SIDE B
SLEEP
DECK1
DECK2
VOLUME
REC
PROGRAM
RANDOM
TUNED
STEREO
DOLBY NR

Fig. 5

•CHECK OF LCD SHORT-CIRCUIT

- •Press the "9" button on the remote controller. The indications will appear as shown in Fig. 6.
  If another indication appears, the LCD is defective.

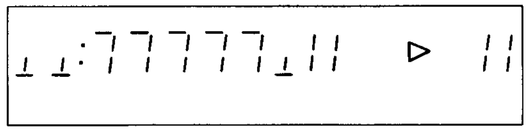
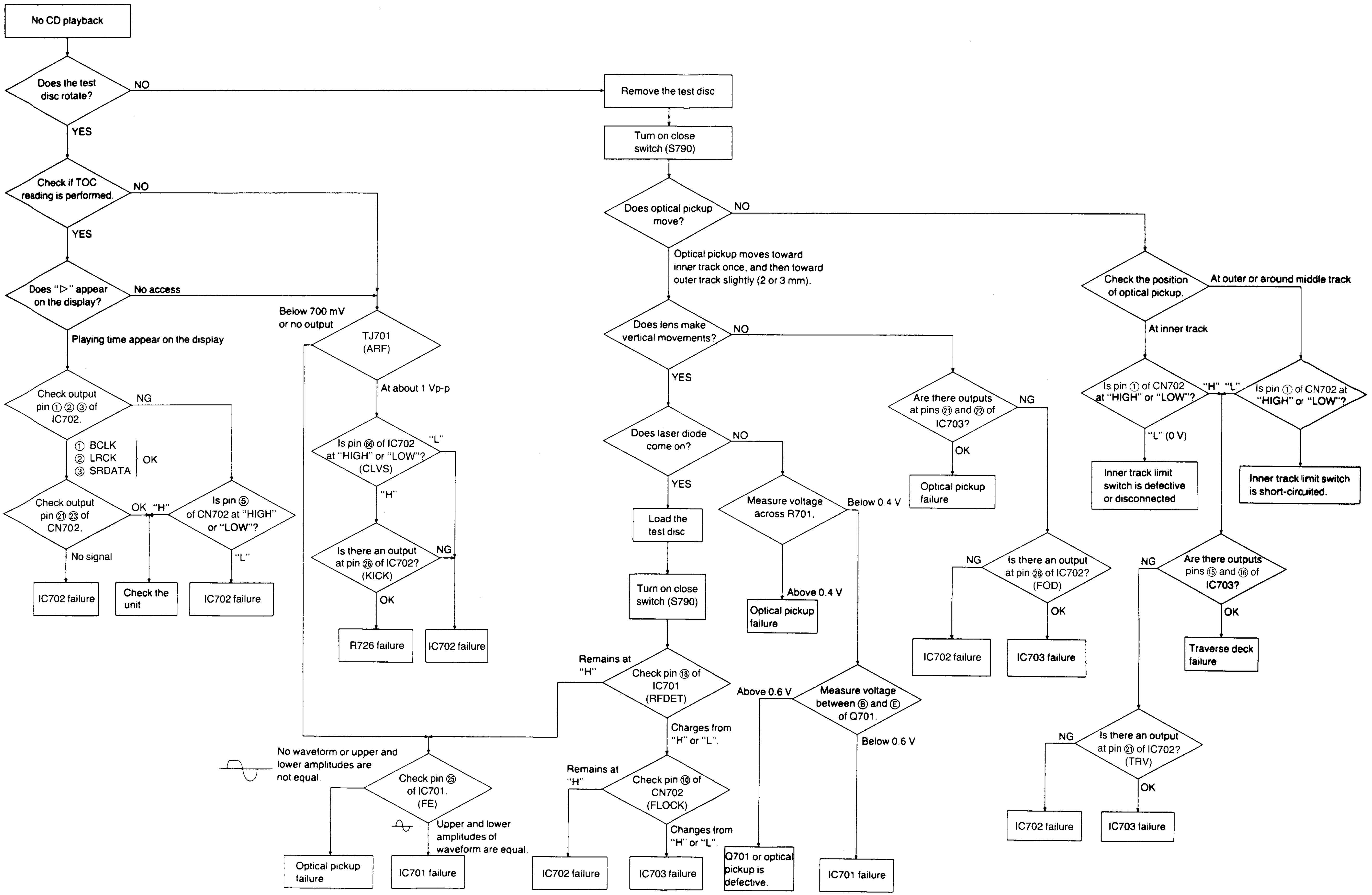


Fig. 6

■ TROUBLESHOOTING GUIDE


No CD playback
Does the test disc rotate?
NO
YES
Check if TOC reading is performed.
NO
YES
Does "▷" appear on the display?
No access
Playing time appear on the display
Check output pin ① ② ③ of IC702.
NG
① BCLK
② LRCK
③ SRDATA
OK
Check output pin ㉑ ㉓ of CN702.
OK
"H"
Is pin ⑤ of CN702 at "HIGH" or "LOW"?
"L"
No signal
IC702 failure
Check the unit
IC702 failure
Below 700 mV or no output
TJ701 (ARF)
At about 1 Vp-p
Is pin (66) of IC702 at "HIGH" or "LOW"? (CLVS)
"L"
"H"
Is there an output at pin ㉖ of IC702? (KICK)
NG
OK
R726 failure
IC702 failure
No waveform or upper and lower amplitudes are not equal.
Check pin ㉕ of IC701. (FE)
Upper and lower amplitudes of waveform are equal.
Optical pickup failure
IC701 failure
Remove the test disc
Turn on close switch (S790)
Does optical pickup move?
NO
Optical pickup moves toward inner track once, and then toward outer track slightly (2 or 3 mm).
Does lens make vertical movements?
NO
YES
Does laser diode come on?
NO
YES
Load the test disc
Turn on close switch (S790)
Remains at "H"
Check pin ⑱ of IC701 (RFDET)
Charges from "H" or "L".
Remains at "H"
Check pin ⑩ of CN702 (FLOCK)
Changes from "H" or "L".
IC702 failure
IC703 failure
Measure voltage across R701.
Below 0.4 V
Above 0.4 V
Optical pickup failure
Above 0.6 V
Measure voltage between Ⓑ and Ⓔ of Q701.
Below 0.6 V
Q701 or optical pickup is defective.
IC701 failure
Are there outputs at pins ㉑ and ㉒ of IC703?
NG
OK
Optical pickup failure
NG
Is there an output at pin ㉘ of IC702? (FOD)
OK
IC702 failure
IC703 failure
Check the position of optical pickup.
At outer or around middle track
At inner track
Is pin ① of CN702 at "HIGH" or "LOW"?
"H"
"L"
Is pin ① of CN702 at "HIGH" or "LOW"?
"L" (0 V)
Inner track limit switch is defective or disconnected
Inner track limit switch is short-circuited.
NG
Are there outputs pins ⑮ and ⑯ of IC703?
OK
Traverse deck failure
NG
Is there an output at pin ㉑ of IC702? (TRV)
OK
IC702 failure
IC703 failure

■ FUNCTION OF IC TERMINALS

•IC603 (M50253P) (The same IC is employed in IC305 and IC603.)

<table>
<tr><th>Pin No.</th><th>Terminal Name</th><th>I/O</th><th>Function</th></tr>
<tr><td>1</td><td>GND</td><td>——</td><td>GND</td></tr>
<tr><td>2</td><td>AG DATA</td><td>I</td><td>AG data signal input</td></tr>
<tr><td>3</td><td>AG CLK1</td><td>I</td><td>AG clock signal input</td></tr>
<tr><td>4</td><td>CD L</td><td rowspan="4">O</td><td rowspan="4">Function control signal output<table><tr><th>Pin No.</th><th>CD</th><th>TAPE</th><th>TUNER</th><th>AUX</th></tr><tr><td>4</td><td>L</td><td>H</td><td>H</td><td>H</td></tr><tr><td>5</td><td>H</td><td>L</td><td>H</td><td>H</td></tr><tr><td>6</td><td>H</td><td>H</td><td>L</td><td>H</td></tr><tr><td>7</td><td>H</td><td>H</td><td>H</td><td>L</td></tr></table></td></tr>
<tr><td>5</td><td>TAPE L</td></tr>
<tr><td>6</td><td>TUNER L</td></tr>
<tr><td>7</td><td>AUX L</td></tr>
<tr><td>8</td><td>MONO/
STEREO</td><td>O</td><td><table><tr><th>AM</th><th>FM STEREO</th><th>FM MONO</th></tr><tr><td>H</td><td>L</td><td>H</td></tr></table></td></tr>
<tr><td>9</td><td>VOLATT</td><td>O</td><td>Electric volume muting (−10 dB)</td></tr>
<tr><td>10</td><td>TOP OPEN</td><td rowspan="2">O</td><td rowspan="2">Cobra top open/close<table><tr><th>Pin No.</th><th>CLOSE</th><th>OPEN</th><th>BRAKE</th><th>OUTPUT OPEN</th></tr><tr><td>10</td><td>L</td><td>H</td><td>H</td><td>L</td></tr><tr><td>11</td><td>H</td><td>L</td><td>H</td><td>L</td></tr></table></td></tr>
<tr><td>11</td><td>TOP CLS</td></tr>
<tr><td>12</td><td>ATT0</td><td rowspan="2">O</td><td rowspan="2">ATLS position<table><tr><th>Pin No.</th><th>+3 dB</th><th>0 dB</th><th>−3 dB</th><th>−6 dB</th></tr><tr><td>12</td><td>L</td><td>H</td><td>L</td><td>H</td></tr><tr><td>13</td><td>L</td><td>L</td><td>H</td><td>H</td></tr></table></td></tr>
<tr><td>13</td><td>ATT1</td></tr>
<tr><td>14</td><td>LD CLOSE</td><td rowspan="2">O</td><td rowspan="2">Disc tray open/close<table><tr><th>Pin No.</th><th>CLOSE</th><th>OPEN</th><th>BRAKE</th><th>OUTPUT OPEN</th></tr><tr><td>14</td><td>L</td><td>H</td><td>H</td><td>L</td></tr><tr><td>15</td><td>H</td><td>L</td><td>H</td><td>L</td></tr></table></td></tr>
<tr><td>15</td><td>LD OPEN</td></tr>
<tr><td>16</td><td>VDD</td><td>I</td><td>+5 V</td></tr>
</table>

•IC305 (M50253P) (The same IC is employed in IC305 and IC603.)

<table>
<tr><th>Pin No.</th><th>Terminal Name</th><th>Function</th></tr>
<tr><td>1</td><td>VSS</td><td>GND</td></tr>
<tr><td>2</td><td>DATA</td><td>Deck control data input</td></tr>
<tr><td>3</td><td>CLK</td><td>Deck control clock input</td></tr>
<tr><td>4</td><td>TAPE L</td><td>Function select (at “TAPE” position)<table><tr><td>CD</td><td>TAPE</td><td>TUNER</td><td>AUX</td></tr><tr><td>“HIGH”</td><td>“LOW”</td><td>“HIGH”</td><td>“HIGH”</td></tr></table></td></tr>
<tr><td>5</td><td>HI SP</td><td>High speed editing control</td></tr>
<tr><td>6</td><td>DOLBY</td><td>Not used</td></tr>
<tr><td>7</td><td>BP H</td><td>Beat proof control signal output</td></tr>
<tr><td>8</td><td>DMT</td><td>Deck muting control signal output</td></tr>
<tr><td>9</td><td>AGC OFF</td><td>AGC OFF control signal output</td></tr>
<tr><td>10</td><td>1H</td><td>Playback head select signal output</td></tr>
<tr><td>11</td><td>REC</td><td>Recording control signal output</td></tr>
<tr><td>12</td><td>2M</td><td>DECK 2 motor control signal output</td></tr>
<tr><td>13</td><td>1M</td><td>DECK 1 motor control signal output</td></tr>
<tr><td>14</td><td>2PL</td><td>DECK 2 plunger control signal output</td></tr>
<tr><td>15</td><td>1PL</td><td>DECK 1 plunger control signal output</td></tr>
<tr><td>16</td><td>VDD</td><td>+5 V</td></tr>
</table>

•IC701 (AN8802SCE1V)

Pin No.	Terminal Name	I/O	Function
1	PDAD	I	PD A channel signal input with delay
2	PDA	I	PD A channel signal input without delay
3	LPD	I	Laser PD connection
4	LD	O	Power supply for LD driving
5	AMPI	I	RF amplifier input
6	Vcc	I	Power supply connection
7	AMPO	O	RF amplifier output (no use, open)
8	CAGC	I	AGC loop filter connection
9	ARF	O	RF AGC output
10	CENV	I	Capacitor connection for RF detection
11	CEA	I	Capacitor connection for HPF amplifier
12	GND	—	Ground connection
13	LDON	I	ON/OFF input of LD APC (“H”: ON, “L”: OFF)
14	TES	I	Tracking error shunt signal input (“H”: shunt)
15	PLAY	I	Play signal input (“H”: PLAY)
16	WVEL	I	WVEL control
17	BDO	O	BDO output
18	/RFDET	O	NRFDET output
19	CROSS	O	CROSS output
20	OFTR	O	OFTR output
21	VDET	O	VDET output
22	ENV	O	ENV output
23	TEBPF	I	Vibration detection input
24	TE	O	Tracking error output
25	FE	O	Focus error output
26	PTO	O	Potentioamplifier output (no use, open)
27	PTI	I	Potentioamplifier inversion input (no use, open)
28	TBAL	I	Tracking balance input
29	FBAL	I	Focus balance input
30	VREF	O	VREF output
31	PDB	I	PD B channel signal input without delay
32	PDBD	I	PD B channel signal input with delay

•IC702 (MN66271RA)

Pin No.	Terminal Name	I/O	Function
1	BCLK	O	Bit clock output for serial data (no used, open)
2	LRCK	O	L/R identification signal output (no use, open)
3	SRDATA	O	Serial data output (no used, open)
4	DVDD1	I	Power supply input (for digital circuit)
5	DVSS1	—	GND (for digital circuit)
6	TX	O	Digital audio interface signal output
7	MCLK	I	Microprocessor command clock signal input (Latches data at first transition)
8	MDATA	I	Microprocessor command data signal input
9	MLD	I	Microprocessor command load signal input
10	SENSE	O	Sence signal output (OFT, FESL, MAGEND, NAJEND, POSAD, SFG)
11	/FLOCK	O	Focus servo feeding signal output (“L”: Feed)
12	/TLOCK	O	Tracking servo feeding signal output (“L”: Feed)
13	BLKCK	O	Sub-code block clock signal output (fBLKCK=75 Hz during normal playback)
14	SQCK	I	External clock signal input for sub-code Q register
15	SUBQ	O	Sub-code Q code output
16	DMUTE	I	Muting input (“H”: Mute)
17	STAT	O	Status signal output (CRC, CUE, CLVS, TTSTVP, FCLV, SQCK)
18	/RST	I	Reset input
19	SMCK	O	1/2-divided clock signal of crystal oscillating at MSEL=“H” (fSMCK=8.4672 MHz) 1/4-divided clock signal of crystal oscillating at MSEL=“L” (fSMCK=4.2336 MHz)
20	PMCK	O	1/192-divided clock signal of crystal oscillating (fPMCK=88.2 KHz (no use, open)
21	TRV	O	Traverse forced feed output
22	TVD	O	Traverse drive output
23	PC	O	Spindle motor ON signal output (“L”: ON)
24	ECM	O	Spindle motor drive signal output (forced mode output)
25	ECS	O	Spindle motor drive signal output (servo error signal output)
26	KICK	O	Kick pulse output
27	TRD	O	Tracking drive output
28	FOD	O	Focus drive output

Pin No.	Terminal Name	I/O	Function
29	VREF	I	D/A (drive) output (TVD, ECS, TRD, FOD, FBAL, TBAL) Reference voltage input
30	FBAL	O	Focus balance adjustment output (no use, open)
31	TBAL	O	Tracking balance adjustment output
32	FE	I	Focus error signal input (analog input)
33	TE	I	Tracking error signal input (analog input)
34	RFENV	I	RF envelope signal input
35	VDET	I	Vibration detection signal input ("H": detection)
36	OFT	I	Off-track signal input ("H": off track)
37	TRCRS	I	Track cross signal input
38	/RFDET	I	RF detection signal input ("L": detection)
39	BDO	I	Dropout signal input ("H": Dropout)
40	LDON	O	Laser on signal output ("H": ON)
41	TES	O	Tracking error shunt signal output ("H": shunt)
42	PLAY	O	Play signal out ("H": PLAY)
43	WVEL	O	Double speed status signal output ("H": Double speed)
44	ARF	I	RF signal input
45	IREF	I	Reference current input
46	DRF	I	DSL bias (no use, open)
47	DSLF	I/O	DSL loop filter
48	PLLF	I/O	PLL loop filter
49	VCOF	I/O	VCO loop filter (no use, open)
50	AVDD2	I	Power supply input (for analog circuit)
51	AVss2	—	GND (for analog circuit)
52	EFM	O	EFM signal output (not use, open)
53	PCK	O	PLL extraction clock output (fPCK=4.321 MHz during normal playback) (no use, open)
54	PDO	O	Phase comparison signal of EFM and PCK signals (no use, open)
55	SUBC	O	Sub-code serial data output (no use, open)
56	SBCK	I	Clock input for sub-code serial data (no use, open)
57	Vss	—	GND
58	X1	I	Crystal oscillating circuit input (f=16.9344 MHz)
59	X2	O	Crystal oscillation circuit output (f=16.9344 MHz)
60	VDD	I	Power supply input (for oscillating circuit)
61	BYTCK	O	Byte clock output (no use, open)
62	/CLDCK	O	Sub-code frame clock signal output (fCLDCK=7.35 kHz during normal playback)
63	FCLK	O	Crystal frame clock signal output (fFCLK=7.35 kHz, double=14.7 kHz)
64	PFLAG	O	Interpolation flag output ("H": Interpolation) (no use, open)
65	FLAG	O	Flage output (no use, open)
66	CLVS	O	Spindle servo phase synchronizing signal output ("H": CLV, "L": rough servo) (no use, open)
67	CRC	O	Sub-code CRC checked output ("H": OK, "L": NG) (no use, open)
68	DEMPH	O	De-emphasis ON signal output ("H": ON) (no use, open)
69	RESY	O	Frame resynchronizing signal output (no use, open)
70	/RST2	I	Reset input through MASH circuit ("L": Reset)
71	/TEST	I	Test input
72	AVDD1	I	Power supply input (for analog circuit)
73	OUTL	O	Left channel audio signal output
74	AVss1	—	GND
75	OUTR	O	Right channel audio signal output
76	RSEL	I	RF signal polarity assignment input (at "H" level, RSEL="H"; at "L" level, RSEL=L)
77	CSEL	I	Crystal oscillating frequency designation input ("L": 16.9344 MHz, "H": 33/8688 MHz)
78	PSEL	I	Test input (normally, "L") (no use, open)
79	MSEL	I	Output frequency switching for SMCK terminal "H": SMCK=8.4672 MHz "L": SMCK=4.2336 MHz (no use, open)
80	SSEL	I	Output mode switching of SUBQ terminal ("H": Q code buffer mode)

•IC801 (MND2410READ)

Pin No.	Mark	I/O Division	Function
1	VDD	I	+5 V
2	OSC2	O	Clock output (4 MHz)
3	OSC1	I	Clock input (4 MHz)
4	VSS	——	GND
5	XI	I	Clock input (32 kHz)
6	XO	O	Clock output (32 kHz)
7	VREF-	I	AD converter reference voltage (GND)
8	ADIN7	I	AD converter input (Tape deck switch)
9	ADIN6	I	AD converter input (Tape deck switch)
10	ADIN5	I	AD converter input (Tape deck switch)
11	ADIN4	I	AD converter input (Cobra top open/close)
12	ADIN3	I	AD converter input (Equalizer switch)
13	ADIN2	I	AD converter input (Deck operation switch)
14	ADIN1	I	AD converter input (CD operation switch)
15	ADIN0	I	AD converter input (Operation switch)
16	VREF+	I	AD converter reference voltage (VDD)
17	JOG IN2	I	Jog dial signal input 2
18	JOG IN1	I	Jog dial signal input 1
19	BEEP	O	Beep signal output
20	LUTCH	O	Electric volume control signal output
21	MKDATA	O	Deck control signal output
22	MKCLK	O	Deck control signal output
23	AGCLK	O	Audio signal control clock output
24	AGDATA	O	Audio signal control data output
25	SPCLK	——	GND
26	POWER CONT	O	Power supply circuit control
27	MUTEA	O	Muting control signal output
28	P2	——	GND
29	AGCLK2	O	Audio signal control clock output 2
30	AGCLK3	O	Audio signal control clock output 3
31	REMOCON IN	I	Remote control signal input
32	BLKCK	I	Sub code block clock input
33	STATUS	I	CD status signal input
34	CD RESET	I	CD reset signal input
35	RST	I	System reset signal input
36	MLD/PLL CL	I/O	CD signal process strove signal input/PLL tuner clock signal output
37	MDAT/PLL CE	I/O	CD signal process data signal input/PLL tuner strove signal output
38	MCLK/PLL DI	I/O	CD signal process clock signal input/PLL tuner data signal output
39	CLDCK	O	CD sub-code clock output
40	SUBQ	I	CD sub-code data input
41	———	——	———
42	———	——	———
43	CM	——	GND
44	TLOCK/ TUNED	I	CD tracking signal input/PLL tuner tuning signal input
45	FLOCK/ STEREO	I	CD focus lock signal input/PLL tuner stereo signal input
46	REST	I	Rest switch signal input
47	CD OPEN SW	I	Disc tray open detection switch
48	CD CLOSE SW	I	Disc tray close detection switch
49	SENSE	I	CD sense signal input
50	REM STBY	I	Remote control sensor power control
51	POWER DET	I	Power detection signal input
52~ 93	SEG41~ SEG0	O	LCD segment signal output
94~ 97	COM3~ COM0	O	LCD common signal output
98	VLC3	I	LCD bias reference voltage input 3
99	VLC2	I	LCD bias reference voltage input 2
100	VLC1	I	LCD bias reference voltage input 1

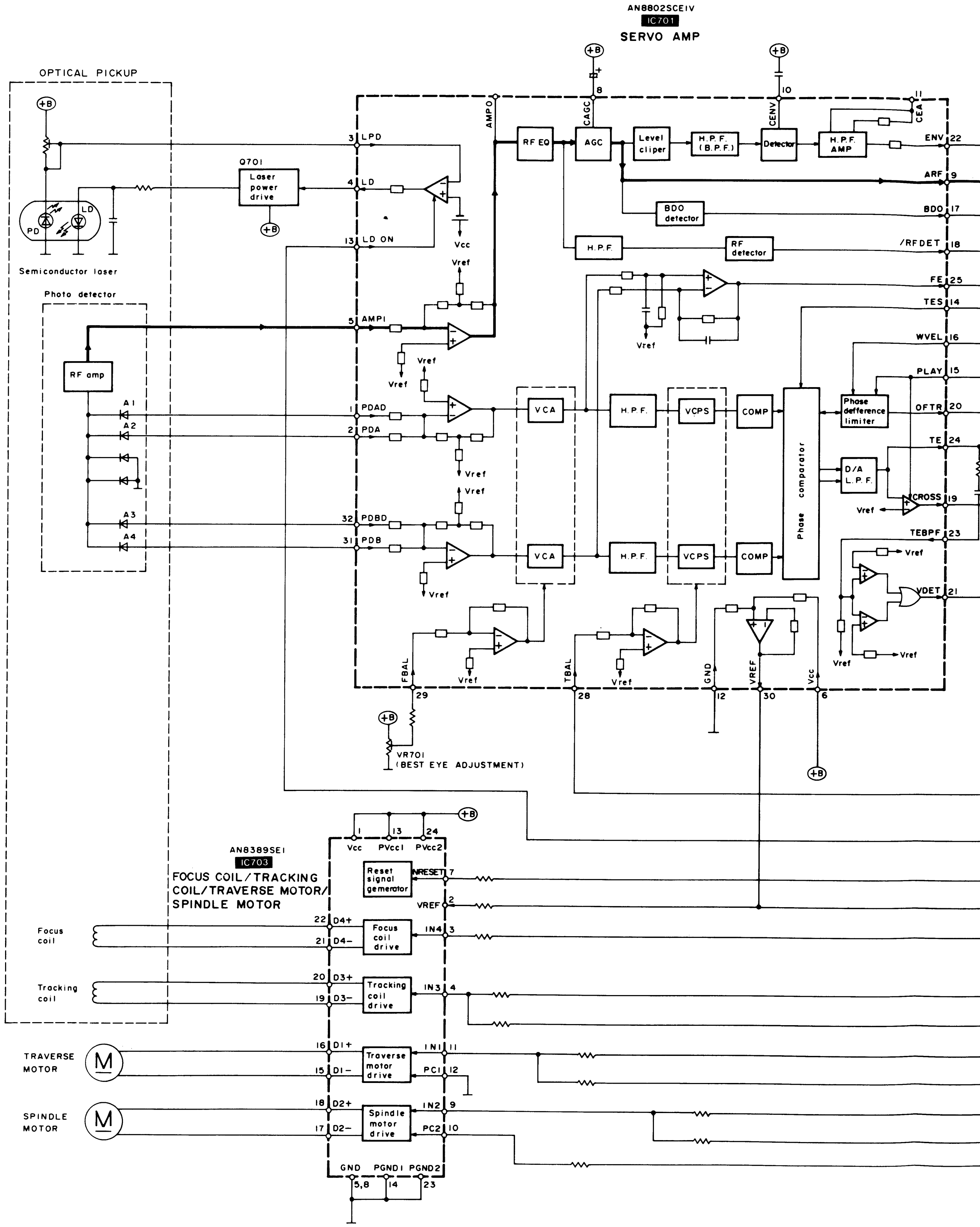
•IC703 (AN8389SE1)

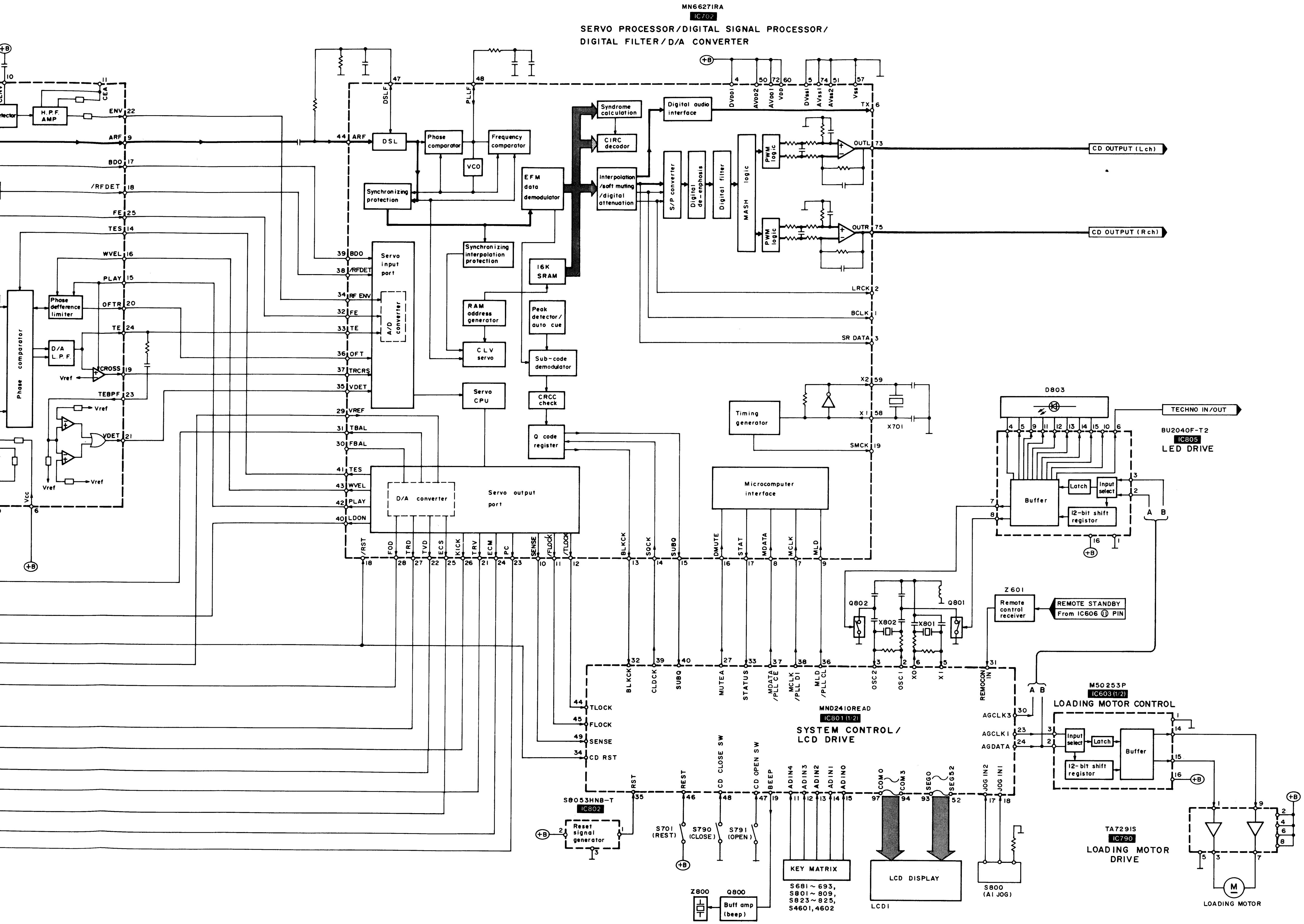
Pin No.	Terminal Name	I/O	Function
1	Vcc	I	Power supply
2	VREF	I	VREF input
3	IN4	I	Motor driver (4) input
4	IN3	I	Motor driver (3) input
5	GND	—	Ground connection
6	NC	—	No connection
7	NRESET	I	Reset input
8	GND	—	Ground connection
9	IN2	I	Motor driver (2) input
10	PC2	I	PC2 (power cut) input
11	IN1	I	Motor driver (1) input
12	PC1	I	PC1 (power cut) input (no use, open)
13	PVcc1	I	Power supply (1) for driver
14	PGND1	—	Ground connection (1) for driver
15	D1−	O	Motor driver (1) reverse-action output
16	D1+	O	Motor driver (1) forward-action output
17	D2−	O	Motor driver (2) reverse-action output
18	D2+	O	Motor driver (2) forward-action output
19	D3−	O	Motor driver (3) reverse-action output
20	D3+	O	Motor driver (3) forward-action output
21	D4−	O	Motor driver (4) reverse-action output
22	D4+	O	Motor driver (4) forward-action output
23	PGND2	—	Ground connection (2) for driver
24	PVcc2	I	Power supply (2) for driver

•IC805 (BU2040F-T2)

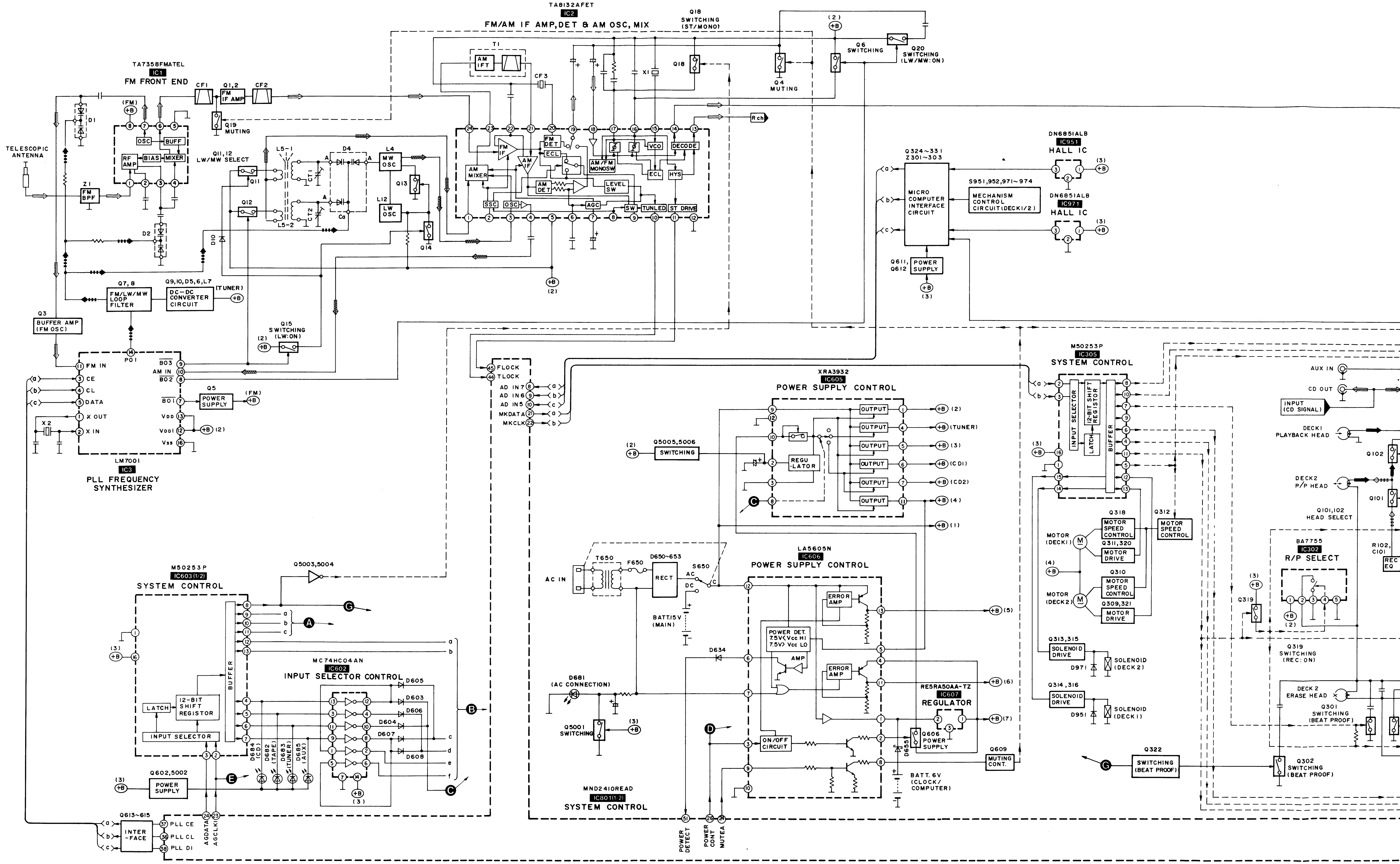
Pin No.	Terminal Name	I/O	Function
1	GND	——	GND
2	AGDATA	I	Data input
3	AGCLK3	I	Clock input
4	TECHNO	O	Surround LED drive signal output
5	FLAT	O	Preset tone LED drive signal output
6	TECHNO IN/OUT	I/O	Surround IN/OUT (IN=L)
7	BP2	O	Beat proof control (bit 2)
8	BP1	O	Beat proof control (bit 1)
9	ST/EDIT	O	STEREO (Tuner)/EDIT (CD) LED drive signal output
10	Q6	——	——
11	LINK	O	LINK (CD) LED drive signal output
12	VOCAL	O	"VOCAL" LED drive signal output
13	SOFT	O	"SOFT" LED drive signal output
14	CLEAR	O	"CLEAR" LED drive signal output
15	HEAVY	O	"HEAVY" LED drive signal output
16	VDD	I	+5 V

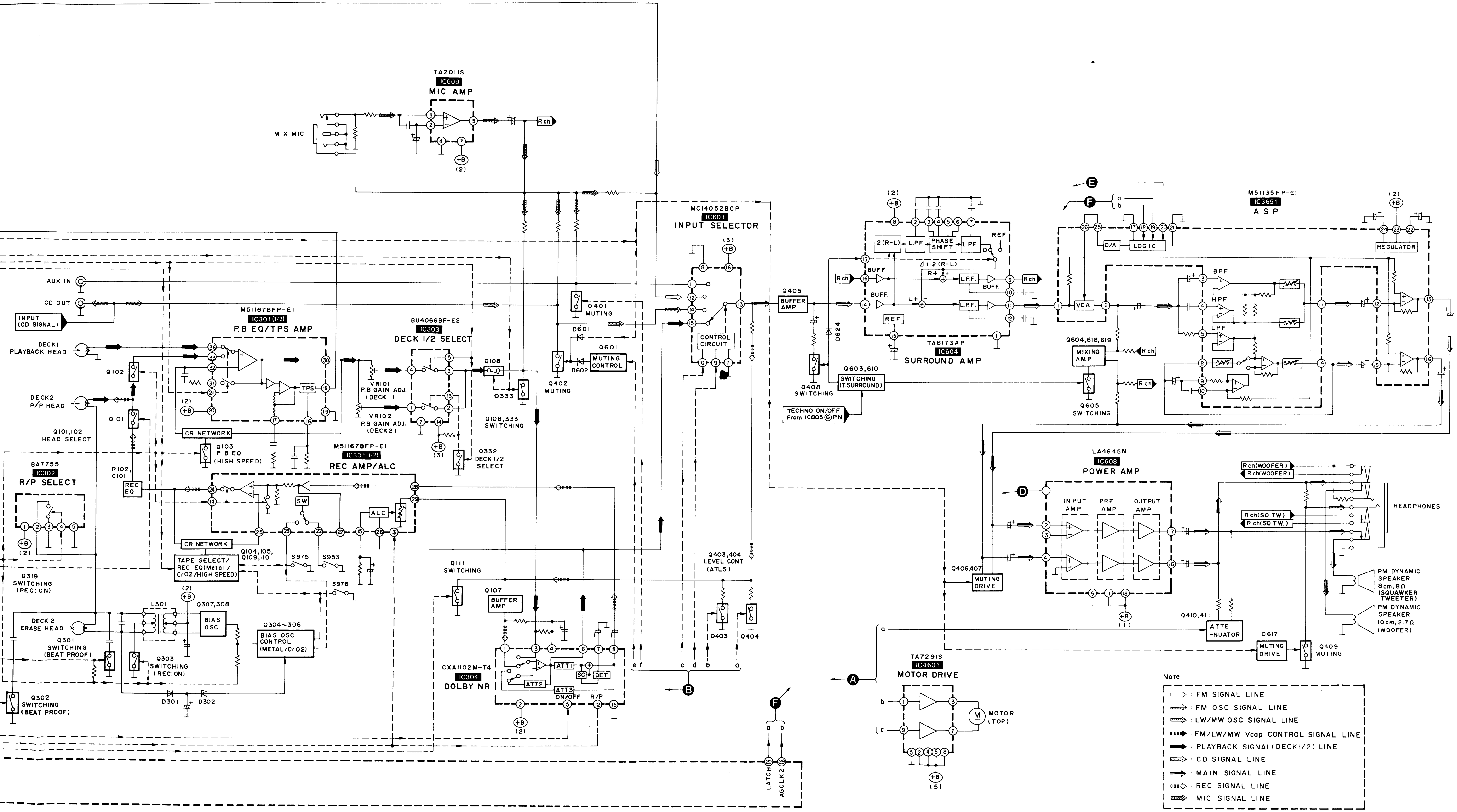
■ BLOCK DIAGRAM


AN8802SCEIV
IC701
SERVO AMP
OPTICAL PICKUP
Semiconductor laser
Photo detector
PD
LD
RF amp
A1
A2
A3
A4
Q701
Laser power drive
LPD
LD
LD ON
AMPI
PDAD
PDA
PDBD
PDB
AMPO
CAGC
CENV
CEA
RF EQ
AGC
Level cliper
H.P.F. (B.P.F.)
Detector
H.P.F. AMP
BDO detector
H.P.F.
RF detector
VCA
VCPS
COMP
Phase comparator
Phase defference limiter
D/A L.P.F.
Vref
Vcc
ENV 22
ARF 9
BDO 17
/RFDET 18
FE 25
TES 14
WVEL 16
PLAY 15
OFTR 20
TE 24
CROSS 19
TEBPF 23
VDET 21
FBAL
TBAL
GND
VREF
29
28
12
30
6
VR701
(BEST EYE ADJUSTMENT)
AN8389SE1
IC703
FOCUS COIL/TRACKING COIL/TRAVERSE MOTOR/SPINDLE MOTOR
Vcc
PVcc1
PVcc2
Reset signal generator
NRESET
VREF
Focus coil drive
Tracking coil drive
Traverse motor drive
Spindle motor drive
D4+
D4−
D3+
D3−
D1+
D1−
D2+
D2−
IN4
IN3
IN1
PC1
IN2
PC2
GND
PGND1
PGND2
5,8
14
23
Focus coil
Tracking coil
TRAVERSE MOTOR
SPINDLE MOTOR
M
+B


MN66271RA
IC702
SERVO PROCESSOR/DIGITAL SIGNAL PROCESSOR/
DIGITAL FILTER/D/A CONVERTER
H.P.F. AMP
CEA
ENV
ARF
BDO
/RFDET
FE
TES
WVEL
PLAY
OFTR
TE
TCROSS
TEBPF
VDET
Vref
Vcc
Phase comparator
Phase defference limiter
D/A L.P.F.
DSLF
PLLF
DSL
Phase comparator
Frequency comparator
VCO
Synchronizing protection
EFM data demodulator
Syndrome calculation
CIRC decodor
Interpolation /soft muting /digital attenuation
Digital audio interface
S/P converter
Digital de-emphasis
Digital filter
MASH logic
PWM logic
OUTL
OUTR
TX
DVDD1
AVDD2
AVDD1
VDD
DVSS1
AVSS1
AVSS2
VSS
CD OUTPUT (Lch)
CD OUTPUT (Rch)
Servo input port
A/D converter
RF ENV
OFT
TRCRS
VDET
VREF
TBAL
FBAL
TES
WVEL
PLAY
LDON
Synchronizing interpolation protection
16K SRAM
RAM address generator
CLV servo
Peak detector/ auto cue
Sub-code demodulator
CRCC check
Q code register
Servo CPU
D/A converter
Servo output port
LRCK
BCLK
SR DATA
X2
X1
X701
Timing generator
SMCK
Microcomputer interface
/RST
FOD
TRD
TVD
ECS
KICK
TRV
ECM
PC
SENSE
/FLOCK
/TLOCK
BLKCK
SQCK
SUBQ
DMUTE
STAT
MDATA
MCLK
MLD
D803
TECHNO IN/OUT
BU2040F-T2
IC805
LED DRIVE
Buffer
Latch
Input select
12-bit shift registor
A B
Q802
Q801
X802
X801
Z601
Remote control receiver
REMOTE STANDBY
From IC606 ⑪ PIN
BLKCK
CLDCK
SUBQ
MUTEA
STATUS
MDATA /PLL CE
MCLK /PLL DI
MLD /PLL CL
OSC2
OSC1
XO
XI
REMOCON IN
TLOCK
FLOCK
SENSE
CD RST
MND2410READ
IC801(1/2)
SYSTEM CONTROL/
LCD DRIVE
AGCLK3
AGCLK1
AGDATA
M50253P
IC603(1/2)
LOADING MOTOR CONTROL
Input select
Latch
Buffer
12-bit shift registor
RST
REST
CD CLOSE SW
CD OPEN SW
BEEP
ADIN4
ADIN3
ADIN2
ADIN1
ADIN0
COM0 ~ COM3
SEG0 ~ SEG52
JOG IN2
JOG IN1
S8053HNB-T
IC802
Reset signal generator
S701 (REST)
S790 (CLOSE)
S791 (OPEN)
Z800
Q800
Buff amp (beep)
KEY MATRIX
S681 ~ 693,
S801 ~ 809,
S823 ~ 825,
S4601, 4602
LCD DISPLAY
LCD1
S800 (AI JOG)
TA7291S
IC790
LOADING MOTOR DRIVE
M
LOADING MOTOR
+B

■ BLOCK DIAGRAM


TA8132AFET
IC2
FM/AM IF AMP, DET & AM OSC, MIX
TA7358FMATEL
IC1
FM FRONT END
TELESCOPIC ANTENNA
Z1
FM BPF
D1
D2
OSC
BUFF
RF AMP
BIAS
MIXER
CF1
Q1,2
FM IF AMP
CF2
Q19
MUTING
Q11,12
LW/MW SELECT
Q11
Q12
L5-1
L5-2
CT1
CT2
D4
Ca
L4
MW OSC
L12
LW OSC
Q13
Q14
D10
T1
AM IFT
CF3
X1
Q18
SWITCHING (ST/MONO)
Q4
MUTING
Q6
SWITCHING
Q20
SWITCHING (LW/MW:ON)
FM IF
AM IF
AM MIXER
FM DET
ECL
AM DET
AM/FM MONOSW
VCO
DECODE
ECL
HYS
LEVEL SW
AGC
SSC
OSC
SW
TUNLED
ST DRIVE
Rch
Q7,8
FM/LW/MW LOOP FILTER
Q9,10,D5,6,L7
DC-DC CONVERTER CIRCUIT
(TUNER)
Q3
BUFFER AMP (FM OSC)
Q15
SWITCHING (LW:ON)
PO1
FM IN
CE
CL
DATA
X OUT
X IN
X2
BO3
AM IN
BO2
BO1
VDD
VDD1
VSS
Q5
POWER SUPPLY
(FM)
LM7001
IC3
PLL FREQUENCY SYNTHESIZER
FLOCK
TLOCK
AD IN7
AD IN6
AD IN5
MKDATA
MKCLK
Q324~331
Z301~303
MICRO COMPUTER INTERFACE CIRCUIT
S951,952,971~974
MECHANISM CONTROL CIRCUIT (DECK1/2)
DN6851ALB
IC951
HALL IC
DN6851ALB
IC971
HALL IC
Q611, Q612
POWER SUPPLY
XRA3932
IC605
POWER SUPPLY CONTROL
OUTPUT
REGU-LATOR
(2)
(TUNER)
(3)
(CD1)
(CD2)
(4)
(1)
Q5005,5006
SWITCHING
M50253P
IC305
SYSTEM CONTROL
INPUT SELECTOR
12-BIT SHIFT REGISTOR
LATCH
BUFFER
AUX IN
CD OUT
INPUT (CD SIGNAL)
DECK1 PLAYBACK HEAD
DECK2 P/P HEAD
Q102
Q101
Q101,102 HEAD SELECT
Q318
MOTOR SPEED CONTROL
Q311,320
MOTOR DRIVE
Q310
MOTOR SPEED CONTROL
Q309,321
MOTOR DRIVE
Q312
MOTOR SPEED CONTROL
MOTOR (DECK1)
MOTOR (DECK2)
BA7755
IC302
R/P SELECT
R102, C101
REC EQ
Q319
Q319 SWITCHING (REC:ON)
DECK 2 ERASE HEAD
Q301 SWITCHING (BEAT PROOF)
Q313,315
SOLENOID DRIVE
D971
SOLENOID (DECK 2)
Q314,316
SOLENOID DRIVE
D951
SOLENOID (DECK 1)
Q322
SWITCHING (BEAT PROOF)
Q302 SWITCHING (BEAT PROOF)
AC IN
T650
F650
D650~653
RECT
S650
AC
DC
BATT.15V (MAIN)
LA5605N
IC606
POWER SUPPLY CONTROL
ERROR AMP
POWER DET. 7.5V< Vcc HI 7.5V> Vcc LO
AMP
ERROR AMP
ON/OFF CIRCUIT
D634
D681 (AC CONNECTION)
Q5001 SWITCHING
(5)
(6)
(7)
RE5RA50AA-TZ
IC607
REGULATOR
Q606 POWER SUPPLY
D655
BATT. 6V (CLOCK/COMPUTER)
Q609
MUTING CONT.
MND2410READ
IC801(1/2)
SYSTEM CONTROL
POWER DETECT
POWER CONT
MUTEA
M50253P
IC603(1/2)
SYSTEM CONTROL
Q5003,5004
LATCH
12-BIT SHIFT REGISTOR
INPUT SELECTOR
BUFFER
MC74HC04AN
IC602
INPUT SELECTOR CONTROL
D605
D603
D606
D604
D607
D608
D684 (CD)
D682 (TAPE)
D683 (TUNER)
D685 (AUX)
Q602,5002
POWER SUPPLY
Q613~615
INTER-FACE
PLL CE
PLL CL
PLL DI
AGDATA
AGCLK
A
B
C
D
E
G
+B


TA2011S
IC609
MIC AMP
MIX MIC
Rch
(2)
MC14052BCP
IC601
INPUT SELECTOR
CONTROL CIRCUIT
AUX IN
CD OUT
INPUT (CD SIGNAL)
M51167BFP-E1
IC301(1/2)
P.B EQ/TPS AMP
TPS
CR NETWORK
DECK1 PLAYBACK HEAD
DECK2 P/P HEAD
Q102
Q101
Q101,102 HEAD SELECT
Q103 P.B EQ (HIGH SPEED)
BU4066BF-E2
IC303
DECK 1/2 SELECT
VR101 P.B GAIN ADJ. (DECK 1)
VR102 P.B GAIN ADJ. (DECK2)
Q108
Q333
Q108,333 SWITCHING
Q332 DECK1/2 SELECT
Q401 MUTING
D601
D602
Q601 MUTING CONTROL
Q402 MUTING
BA7755
IC302
R/P SELECT
R102, C101
REC EQ
M51167BFP-E1
IC301(1/2)
REC AMP/ALC
SW
ALC
CR NETWORK
Q104,105, Q109,110
TAPE SELECT/ REC EQ(Metal/ CrO2/HIGH SPEED)
S975
S953
S976
Q319 SWITCHING (REC:ON)
DECK 2 ERASE HEAD
L301
Q307,308
BIAS OSC
Q304~306 BIAS OSC CONTROL (METAL/CrO2)
Q301 SWITCHING (BEAT PROOF)
Q303 SWITCHING (REC:ON)
D301
D302
Q302 SWITCHING (BEAT PROOF)
Q111 SWITCHING
Q107 BUFFER AMP
CXA1102M-T4
IC304
DOLBY NR
ATT1
ATT2
ATT3
SC
DET
ON/OFF
R/P
Q403,404 LEVEL CONT. (ATLS)
Q403
Q404
e f
c d b a
B
LATCH
AGCLK2
F
a b
Q405 BUFFER AMP
D624
Q408 SWITCHING
Q603,610 SWITCHING (T.SURROUND)
TECHNO ON/OFF From IC805 ⑥ PIN
TA8173AP
IC604
SURROUND AMP
2(R-L)
L.P.F.
PHASE SHIFT
REF
BUFF
Δ1·2(R-L)
R+
L+
M51135FP-E1
IC3651
ASP
E
F
a b
D/A
LOGIC
REGULATOR
VCA
BPF
HPF
LPF
Q604,618,619
MIXING AMP
Q605 SWITCHING
LA4645N
IC608
POWER AMP
D
INPUT AMP
PRE AMP
OUTPUT AMP
Rch(WOOFER)
Rch(SQ.TW)
HEADPHONES
PM DYNAMIC SPEAKER 8cm,8Ω (SQUAWKER TWEETER)
PM DYNAMIC SPEAKER 10cm,2.7Ω (WOOFER)
Q406,407 MUTING DRIVE
Q410,411 ATTE -NUATOR
Q617 MUTING DRIVE
Q409 MUTING
A
TA7291S
IC4601
MOTOR DRIVE
M
MOTOR (TOP)
(+B)
(1)
(3)
(5)

Note :
- ⇨ : FM SIGNAL LINE
- ⇨ : FM OSC SIGNAL LINE
- ⇨ : LW/MW OSC SIGNAL LINE
- ➡ : FM/LW/MW Vcap CONTROL SIGNAL LINE
- ➡ : PLAYBACK SIGNAL(DECK1/2) LINE
- ⇨ : CD SIGNAL LINE
- ➡ : MAIN SIGNAL LINE
- ⇨ : REC SIGNAL LINE
- ⇨ : MIC SIGNAL LINE

■ REPLACEMENT PARTS LIST

Notes: *Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
*The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
*Remote Control Ass'y:
Supply period for three years from termination of production.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC1	TA7358FMATEL	I. C, FM FRONT END	
IC2	TA8132AFET	I. C, FM/AM IF AMP	
IC3	LM7001	I. C, PLL FREQ. SYNTHESIZER	
IC301	M51167BFP-E1	I. C, P. B. EQ/REC AMP	
IC302	BA7755	I. C, R/P SELECT	
IC303	BU4066BF-E2	I. C, DECK 1/2 SELECT	
IC304	CXA1102M-T4	I. C, DOLBY NR	
IC305	M50253P	I. C, SYSTEM CONTROL	
IC601	MC14052BCP	I. C, INPUT SELECTOR	
IC602	MC74HC04AN	I. C, INPUT SELECTOR	
IC603	M50253P	I. C, SYSTEM CONTROL	
IC604	TA8173AP	I. C, SURROUND AMP	
IC605	XRA3932	I. C, POWER SUPPLY CONTROL	⚠
IC606	LA5605N	I. C, POWER SUPPLY CONTROL	
IC607	RE5RA50AA-TZ	I. C, REGULATOR	⚠
IC608	LA4645N	I. C, POWER AMP	
IC609	TA2011S	I. C, MIC AMP	
IC701	AN8802SCE1V	I. C, SERVO AMP	
IC702	MN66271RA	I. C, SERVO PROCESSOR	
IC703	AN8389SE1	I. C, MOTOR DRIVE	
IC790	TA7291S	I. C, MOTOR DRIVE	
IC801	MND2410READ	I. C, SYSTEM CONTROL	
IC802	S8053HNB-T	I. C, RESET	
IC805	BU2040F-T2	I. C, LED DRIVE	
IC951	DN6851ALB	I. C, HALL	
IC971	DN6851ALB	I. C, HALL	
IC3651	M51137FP-E1	I. C, ASP	
IC4601	TA7291S	I. C, MOTOR DRIVE	
		TRANSISTOR(S)	
Q1, 2	2SC3313B	TRANSISTOR	
Q3	2SC2786LTA	TRANSISTOR	
Q4	2SC3311R	TRANSISTOR	
Q5, 6	RVTDTA143XST	TRANSISTOR	
Q7-9	2SC3311R	TRANSISTOR	
Q10	2SC3311R	TRANSISTOR	
Q11, 12	2SA1309R	TRANSISTOR	
Q13, 14	2SC3311R	TRANSISTOR	
Q15	RVTDTA143XST	TRANSISTOR	
Q18	2SK381CTA	TRANSISTOR	
Q19	RVTDTC114TST	TRANSISTOR	
Q20	RVTDTA143XST	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q101, 102	2SJ40CDTA	TRANSISTOR	
Q103-105	UN4210-S	TRANSISTOR	
Q107	2SC1740SLNET	TRANSISTOR	
Q108	2SJ40CDTA	TRANSISTOR	
Q109-111	UN4210-S	TRANSISTOR	
Q201, 202	2SJ40CDTA	TRANSISTOR	
Q203-205	UN4210-S	TRANSISTOR	
Q207	2SC1740SLNET	TRANSISTOR	
Q208	2SJ40CDTA	TRANSISTOR	
Q209-211	UN4210-S	TRANSISTOR	
Q301, 302	2SC2389SSTA	TRANSISTOR	
Q303	2SD1450RTA	TRANSISTOR	
Q304, 305	UN4210-S	TRANSISTOR	
Q306	2SC3311R	TRANSISTOR	
Q307, 308	2SD1450RTA	TRANSISTOR	
Q309	2SD965Q	TRANSISTOR	
Q310	2SK381BCDTA	TRANSISTOR	
Q311	2SD965Q	TRANSISTOR	
Q312	UN4210-S	TRANSISTOR	
Q313, 314	2SB1030QTA	TRANSISTOR	
Q315, 316	UN4215	TRANSISTOR	
Q318	2SK381BCDTA	TRANSISTOR	
Q319-321	UN411FTA	TRANSISTOR	
Q322	UN4214TA	TRANSISTOR	
Q324-328	2SC3311R	TRANSISTOR	
Q329	UN4215	TRANSISTOR	
Q330, 331	2SC3311R	TRANSISTOR	
Q332	UN4213	TRANSISTOR	
Q333	UN4210-S	TRANSISTOR	
Q401-404	2SC3311AIRTA	TRANSISTOR	
Q405	2SC3312RTA	TRANSISTOR	
Q406, 407	2SC3311AISTA	TRANSISTOR	
Q408	2SC3311AIRTA	TRANSISTOR	
Q409	2SD1450RTA	TRANSISTOR	
Q410, 411	2SC3311AIRTA	TRANSISTOR	
Q501-504	2SC3311AIRTA	TRANSISTOR	
Q505	2SC3312RTA	TRANSISTOR	
Q506, 507	2SC3311AISTA	TRANSISTOR	
Q508	2SC3311AIRTA	TRANSISTOR	
Q509	2SD1450RTA	TRANSISTOR	
Q510, 511	2SC3311AIRTA	TRANSISTOR	
Q601	UN4111	TRANSISTOR	
Q602	2SC3311AIRTA	TRANSISTOR	
Q603	UN4111	TRANSISTOR	
Q604	2SC3312RTA	TRANSISTOR	
Q605	2SC3311AIRTA	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q606	UN411FTA	TRANSISTOR	
Q609	RVTDTA123JST	TRANSISTOR	
Q611	UN411FTA	TRANSISTOR	
Q612	UN4213	TRANSISTOR	
Q613-616	RVTDTA143EST	TRANSISTOR	
Q617	UN4111	TRANSISTOR	
Q618, 619	2SC3312RTA	TRANSISTOR	
Q701	2SB709S	TRANSISTOR	
Q800-802	2SC3311R	TRANSISTOR	
Q5001	UN421FTA	TRANSISTOR	
Q5002	RVTDTA123JST	TRANSISTOR	
Q5003	UN4213	TRANSISTOR	
Q5004	UN4113TA	TRANSISTOR	
Q5005	UN4214TA	TRANSISTOR	
Q5006	2SA1309AIRTA	TRANSISTOR	
		DIODE(S)	
D1, 2	1SV147T4MATU	DIODE	
D3	MA4051MTA	DIODE	
D4	RVDKV1235ZB	DIODE	
D5	MA4130M	DIODE	
D6	MA165	DIODE	
D10	MA165	DIODE	
D301	MA165	DIODE	
D302	RVDMTZ4R7BTA	DIODE	
D303, 304	MA165	DIODE	
D601-609	MA165	DIODE	
D611-618	MA165	DIODE	
D619	RVDMTZ6R8BTA	DIODE	⚠
D620, 621	MA165	DIODE	
D623, 624	MA165	DIODE	
D626, 627	MA165	DIODE	
D630	RB441QT77	DIODE	
D632	RVDMTZ6R8BTA	DIODE	⚠
D634	MA165	DIODE	
D640	RVDMTZ6R8BTA	DIODE	
D650-653	1N5402B-M21	DIODE	⚠
D655	1SS293TPE4	DIODE	
D681-685	LN051583P	LED	
D692	MA165	DIODE	
D800	MA4240H	DIODE	
D801	MA165	DIODE	
D803	LN088584P	DIODE	
D828	MA165	DIODE	
D951	RVD1SS133TA	DIODE	
D971	RVD1SS133TA	DIODE	
		VARIABLE RESISTOR(S)	
VR101	RRN6B05B24TA	V. R, DOLBY Lch	DECK1
VR102	RRN6B05B24TA	V. R, DOLBY Lch	DECK2

Ref. No.	Part No.	Part Name & Description	Remarks
VR201	RRN6B05B24TA	V. R, DOLBY Rch	DECK1
VR202	RRN6B05B24TA	V. R, DOLBY Rch	DECK2
VR301	RRN6B05B14TA	V. R, TAPE SPEED HIGH	DECK2
VR302	RRN6B05B24TA	V. R, TAPE SPEED NORMAL	DECK2
VR303	RRN6B05B73TA	V. R, TAPE SPEED NORMAL	DECK1
VR701	EVNDXAA00B14	V. R, BEST EYE ADJ.	
		COMPONENT COMBINATION(S)	
Z1	RXABPWB6A	COMPONENT COMBINATION	
Z301-303	EXBF6L306SYV	COMPONENT COMBINATION	
Z601	RCDGP1U58YD	RECIVER	
Z800	RAT0008	BUZZER	
		COIL(S)	
L3	RLQZP4R7KT-Y	COIL	
L4	RL02B001-T	COIL	
L5	RLV6C003-0	COIL	
L7	RL09B18-M	COIL	
L8, 9	RLQZP221KT-Y	COIL	
L12	RL01B001-T	COIL	
L15	RLQZP221KT-Y	COIL	
L17	RLQZP4R7KT-Y	COIL	
L102	RLM2B005-1M	COIL	
L202	RLM2B005-1M	COIL	
L301	RL08C002M-T	COIL	
L302, 303	RLQZB470KT-D	COIL	
L601	RLQZV101KT-D	COIL	
L602	RLQZB470KT-D	COIL	
L650, 651	RLL500050T-Y	COIL	⚠
L800-802	ELEXT2R2KA9	COIL	
L806	ELEXT2R2KA9	COIL	
L807	RLL500050T-Y	COIL	
L823	ELEXT101KA9	COIL	
L828	ELEXT2R2KA9	COIL	
L4601, 4602	RLQZV101KT-D	COIL	
L5001-5007	RLL500050T-Y	COIL	
L5008	RLQZB221KT-D	COIL	
L5009, 5010	RLQZB101KT-D	COIL	
L5011, 5012	RLL500050T-Y	COIL	
		TRANSFORMER(S)	
T1	RLI2B007-T	TRANSFORMER	
T650	RTP1L1B005	POWER TRANSFORMER	⚠
		FILTER(S)	
CF1, 2	RLFFETMLA02D	CERAMIC FILTER	
CF3	RLFDFTA01D	CERAMIC FILTER	

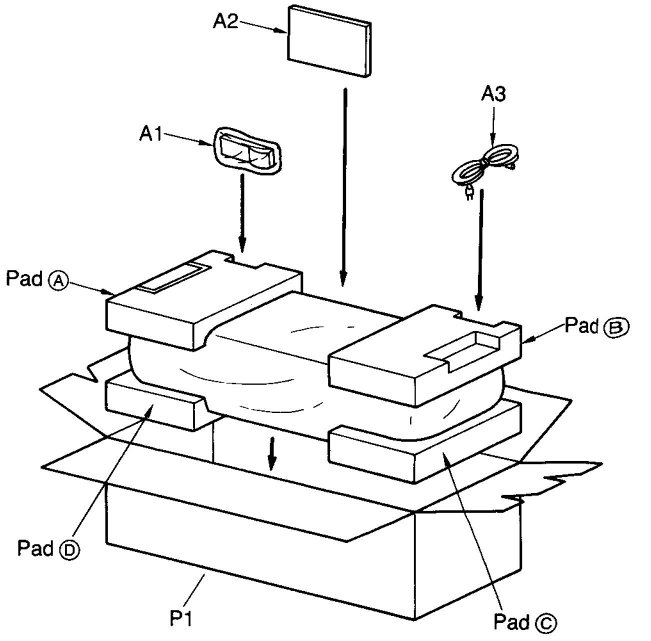
Ref. No.	Part No.	Part Name & Description	Remarks
		OSCILLATOR(S)	
X1	RSXZ456KM01	OSCILLATOR	
X2	RSXC7M20S03	OSCILLATOR	
X701	RSXZ16M9M02T	OSCILLATOR(16.934MHz)	
X801	RSXD32K7S03	OSCILLATOR	
X802	RVBCSA3R9MGT	OSCILLATOR	
		SWITCH(ES)	
S650	RJJ1SE01-H	SW, AC/DC(JK650)	⚠
S681	EVQ21405R	SW, CD OPEN/CLOSE	
S682	EVQ21405R	SW, TOP OPEN/CLOSE	
S683	EVQ21405R	SW, VOL(+)	
S684	EVQ21405R	SW, VOL(-)	
S685	EVQ21405R	SW, OPERATION	
S686	EVQ21405R	SW, CD STOP	
S687	EVQ21405R	SW, CD PLAY	
S688	EVQ21405R	SW, BAND	
S689	EVQ21405R	SW, FWD PLAY	
S690	EVQ21405R	SW, REV PLAY	
S691	EVQ21405R	SW, TAPE STOP	
S692	EVQ21405R	SW, FWD FAST/TPS	
S693	EVQ21405R	SW, REV FAST/TPS	
S701	RSM0006-P	SW, REST	
S790	RSH1A005	SW, LOADING CLOSE DETECT	
S791	RSH1A005	SW, LOADING OPEN DETECT	
S800	EVQWPHF0512B	SW, AI JOG	
S801	EVQ21405R	SW, SET	
S802	EVQ21405R	SW, CANCEL	
S803	EVQ21409K	SW, TIMER/CLOCK	
S804	EVQ21409K	SW, SLEEP	
S805	EVQ21409K	SW, REC-TIMER	
S806	EVQ21409K	SW, PLAY-TIMER	
S807	EVQ21409K	SW, ATLS	
S808	EVQ21409K	SW, REC PAUSE	
S809	EVQ21409K	SW, AUX	
S810	EVQ21409K	SW, COUNT RESET	
S811	EVQ21409K	SW, REV MODE	
S812	EVQ21409K	SW, DECK1/2	
S813	EVQ21409K	SW, HIGH	
S814	EVQ21409K	SW, NORMAL	
S815	EVQ21409K	SW, T-SURROUND	
S816	EVQ21409K	SW, BEEP	
S817	EVQ21409K	SW, CD EDIT	
S818	EVQ21409K	SW, DOLBY NR	
S819	EVQ21409K	SW, RESET EQ	
S823	EVQ21409K	SW, S-XBS LEVEL	
S824	EVQ21409K	SW, TUNING MODE	
S825	EVQ21409K	SW, TITLE	
S951	RSH1A89ZD-U	SW, MODE DETECT(DECK1)	
S952	RSH1A90YC-U	SW, HALF DETECT(DECK1)	

Ref. No.	Part No.	Part Name & Description	Remarks
S953	RSH1A90YC-U	SW, TAPE SELECT(DECK1)	
S971	RSH1A89ZD-U	SW, MODE DETECT(DECK2)	
S972	RSH1A90YC-U	SW, HALF DETECT(DECK2)	
S973	RSH1A90YC-U	SW, R. REC INH(DECK2)	
S974	RSH1A90YC-U	SW, F. REC INH(DECK2)	
S975	RSH1A90YC-U	SW, ATS/CrO2(DECK2)	
S976	RSH1A90YC-U	SW, ATS/METAL(DECK2)	
S4601	RSH1A015-U	SW, TOP OPEN DETECT	
S4602	RSH1A015-U	SW, TOP CLOSE DETECT	
		CONNECTOR(S)	
CN701	RJU035T016-1	SOCKET(16P)	
CN702	RJS1A6723-1Q	SOCKET(23P)	
CP1	RJT028W008-2	CONNECTOR(8P)	
CP11	RJT057W007-1	CONNECTOR(7P)	
CP21	RJT057W006-1	CONNECTOR(6P)	
CP301	RJP5G18ZA	CONNECTOR(5P)	
CP302	SJTD413	CONNECTOR(4P)	
CP307	RJT028W010-2	CONNECTOR(10)	
CP309	RJT028W009-2	CONNECTOR(9P)	
CP605	RJT060B08	CONNECTOR(8P)	
CP650	RJT029W004	CONNECTOR(4P)	
CP651A	RTJ029W03V	CONNECTOR(3P)	
CP651	RJT057W008-1	CONNECTOR(8P)	
CP652	RJT057W009-1	CONNECTOR(9P)	
CP681	RJT028W010-2	CONNECTOR(10P)	
CP790	RJP6G17ZA	CONNECTOR(6P)	
CP3071	RJT057W010-1	CONNECTOR(10P)	
CP3091	RJT057W009-1	CONNECTOR(9P)	
CS2	RJT028W007-2	CONNECTOR(7P)	
CS12	RJU057W007	CONNECTOR(7P)	
CS13	RJU028W008-1	CONNECTOR(8P)	
CS22	RJU057W006	CONNECTOR(6P)	
CS23	RJU028W007-1	CONNECTOR(7P)	
CS681	RJU028W010	CONNECTOR(10P)	
CS800	RJS1A6823	CONNECTOR(23P)	
CS801	RJS1A6815	CONNECTOR(15P)	
CS3072	RJU057W010	CONNECTOR(10P)	
CS3073	RJU028W010	CONNECTOR(10P)	
CS3092	RJU057W009	CONNECTOR(9P)	
CS3093	RJU028W009-1	CONNECTOR(9P)	
CS3651	RJU057W008	CONNECTOR(8P)	
CS3652	RJU057W009	CONNECTOR(9P)	
CS4601	RJP6G17ZA	CONNECTOR(6P)	
CS7021	RJS1A8323	CONNECTOR(23P)	
CS8001	RJS1A6823	CONNECTOR(23P)	
CS8011	RJS1A6815	CONNECTOR(15P)	
TP1	RJP3G1ZA	PLUG(3P)	
		TRIMMER	
CT1	RCV10AF1T-S	TRIMMER CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
CT2	ECRLA020E53R	TRIMMER CAPACITOR	
		IC PROTECTOR	
IP601	SRUN20T	IC PROTECTOR	⚠
IP602	RAHICPN5TA	IC PROTECTOR	⚠
		DISPLAY	
LCD1	RSL5087-L	LCD	
		FUSE	
F650	XBA2C40TB0U	FUSE	⚠
FH601	EYF52BC	FUSE HOLDER	
FH602	EYF52BC	FUSE HOLDER	
		JACK	
JK601	RJJ1D25ZA-C	JACK, MIC	
JK602	RJH3401N-0	JACK, CD OUT/AUX IN	
JK603	RJJ3BT01-1H	JACK, HEADPHONES	
JK650	RJJ1SE01-H	JACK, AC IN (S650)	⚠

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG1590	GIFT BOX	(EB)
P1	RPG1534	GIFT BOX	(EG)
P2	RPN0568	PAD	
P3	RPH0099	PROTECTION COVER	
		ACCESSORIES	
A1	RAK-RX321W	REMOTE CONTROL	
A1-1	RKK0020-H	BATTERY COVER	
A2	RQT1897-B	INSTRUCTION MANUAL	
A2	RQT1898-D	INSTRUCTION MANUAL	(EG)
A2	RQT1899-E	INSTRUCTION MANUAL	(EG)
A3	VJA0733	POWER CORD, AC	(EB)⚠
A3	RJA0019-2K	POWER CORD, AC	(EG)⚠

■ PACKAGING



Pad Ⓐ Ⓑ Ⓒ Ⓓ ass'y: P2

Notes : * Capacity valuse are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM) , 1M=1,000k (OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R1-3	ERDS2TJ104	1/4W 100K
R4	ERDS2TJ470	1/4W 47
R5	ERDS2TJ151	1/4W 150
R6	ERDS2TJ331	1/4W 330
R7	ERDS2TJ391	1/4W 390
R8	ERDS2TJ274	1/4W 270K
R9	ERDS2TJ105T	1/4W 1M
R10	ERDS2TJ561	1/4W 560
R11	ERDS2TJ330	1/4W 33
R12	ERDS2TJ104	1/4W 100K
R13	ERDS2TJ470	1/4W 47
R15	ERDS2TJ391	1/4W 390
R16	ERDS2TJ683	1/4W 68K
R17	ERDS2TJ104	1/4W 100K
R18	ERDS2TJ103	1/4W 10K
R20	ERDS2TJ332	1/4W 3.3K
R21	ERDS2TJ562	1/4W 5.6K
R22	ERDS2TJ473	1/4W 47K
R23	ERDS2TJ102	1/4W 1K
R24	ERDS2TJ223	1/4W 22K
R25	ERDS2TJ103	1/4W 10K
R27	ERDS2TJ151	1/4W 150
R28, 29	ERDS2TJ471	1/4W 470
R30	ERDS2TJ104	1/4W 100K
R31	ERDS2TJ222	1/4W 2.2K
R32	ERDS2TJ473	1/4W 47K
R33-38	ERDS2TJ103	1/4W 10K
R39	ERDS2TJ102	1/4W 1K
R40	ERDS2TJ223	1/4W 22K
R50, 51	ERDS2TJ103	1/4W 10K
R52	ERDS2TJ102	1/4W 1K
R55	ERDS2TJ103	1/4W 10K
R56	ERDS2TJ222	1/4W 2.2K
R60	ERDS2TJ104	1/4W 100K
R61	ERDS2TJ332	1/4W 3.3K
R62, 63	ERDS2TJ681	1/4W 680
R71	ERDS2TJ274	1/4W 270K
R102	ERDS2TJ123	1/4W 12K
R103	ERDS2TJ122	1/4W 1.2K
R105	ERDS2TJ330	1/4W 33
R106	ERDS2TJ392T	1/4W 3.9K
R107	ERDS2TJ682T	1/4W 6.8K
R108	ERDS2TJ222	1/4W 2.2K
R110	ERDS2TJ154	1/4W 150K
R111	ERDS2TJ473	1/4W 47K
R112	ERDS2TJ472	1/4W 4.7K

Ref. No.	Part No.	Values & Remarks
R113	ERDS2TJ332	1/4W 3.3K
R115	ERDS2TJ225	1/4W 2.2M
R116	ERDS2TJ105T	1/4W 1M
R118	ERDS2TJ272T	1/4W 2.7K
R119	ERDS2TJ103	1/4W 10K
R121	ERDS2TJ823T	1/4W 82K
R122	ERDS2TJ105T	1/4W 1M
R123	ERDS2TJ221	1/4W 220
R124	ERDS2TJ104	1/4W 100K
R125	ERDS2TJ102	1/4W 1K
R126	ERDS2TJ222	1/4W 2.2K
R127	ERDS2TJ153	1/4W 15K
R128	ERDS2TJ104	1/4W 100K
R129	ERDS2TJ682T	1/4W 6.8K
R130	ERDS2TJ683	1/4W 68K
R202	ERDS2TJ123	1/4W 12K
R203	ERDS2TJ122	1/4W 1.2K
R205	ERDS2TJ330	1/4W 33
R206	ERDS2TJ392T	1/4W 3.9K
R207	ERDS2TJ682T	1/4W 6.8K
R208	ERDS2TJ222	1/4W 2.2K
R210	ERDS2TJ154	1/4W 150K
R211	ERDS2TJ473	1/4W 47K
R212	ERDS2TJ472	1/4W 4.7K
R213	ERDS2TJ332	1/4W 3.3K
R215	ERDS2TJ225	1/4W 2.2M
R216	ERDS2TJ105T	1/4W 1M
R218	ERDS2TJ272T	1/4W 2.7K
R219	ERDS2TJ103	1/4W 10K
R221	ERDS2TJ823T	1/4W 82K
R222	ERDS2TJ105T	1/4W 1M
R223	ERDS2TJ221	1/4W 220
R224	ERDS2TJ104	1/4W 100K
R225	ERDS2TJ102	1/4W 1K
R226	ERDS2TJ222	1/4W 2.2K
R227	ERDS2TJ153	1/4W 15K
R228	ERDS2TJ104	1/4W 100K
R229	ERDS2TJ682T	1/4W 6.8K
R230	ERDS2TJ683	1/4W 68K
R301	ERDS2TJ334	1/4W 330K
R302	ERDS2TJ102	1/4W 1K
R303	ERDS2TJ103	1/4W 10K
R304, 305	ERDS2TJ102	1/4W 1K
R306, 307	ERDS2TJ472	1/4W 4.7K
R308	ERDS2TJ822	1/4W 8.2K
R309	ERDS2TJ1R2	1/4W 1.2
R310	ERDS2TJ103	1/4W 10K
R311, 312	ERDS2TJ472	1/4W 4.7K
R313	ERDS2TJ332	1/4W 3.3K

Ref. No.	Part No.	Values & Remarks
R314	ERDS2TJ102	1/4W 1K
R315	ERDS2TJ221	1/4W 220
R316	ERDS2TJ1R2	1/4W 1.2
R317	ERDS2TJ562	1/4W 5.6K
R318	ERDS2TJ153	1/4W 15K
R319	ERDS2TJ183T	1/4W 18K
R320	ERDS2TJ334	1/4W 330K
R321	ERDS2TJ221	1/4W 220
R322	ERDS2TJ1R2	1/4W 1.2
R323	ERDS2TJ123	1/4W 12K
R325	ERDS2TJ123	1/4W 12K
R326	ERDS2TJ272T	1/4W 2.7K
R327	ERDS2TJ334	1/4W 330K
R328	ERDS2TJ123	1/4W 12K
R329 ⚠	ERD25FVJ180T	1/4W 18
R330	ERDS2TJ104	1/4W 100K
R331	ERDS2TJ332	1/4W 3.3K
R332	ERDS2TJ474	1/4W 470K
R333	ERDS2TJ472	1/4W 4.7K
R334	ERDS2TJ102	1/4W 1K
R335, 336	ERDS2TJ472	1/4W 4.7K
R338	ERDS2TJ103	1/4W 10K
R340	ERDS2TJ334	1/4W 330K
R341	ERDS2TJ681	1/4W 680
R342	ERDS2TJ433	1/4W 43K
R343	ERDS2TJ103	1/4W 10K
R344	ERDS2TJ104	1/4W 100K
R345, 346	ERDS2TJ472	1/4W 4.7K
R348, 349	ERDS2TJ472	1/4W 4.7K
R350	ERDS2TJ473	1/4W 47K
R351	ERDS2TJ472	1/4W 4.7K
R352, 353	ERDS2TJ473	1/4W 47K
R354	ERDS2TJ681	1/4W 680
R355	ERDS2TJ473	1/4W 47K
R356	ERDS2TJ335T	1/4W 3.3M
R357	ERDS2TJ222	1/4W 2.2K
R358	ERDS2TJ472	1/4W 4.7K
R360	ERDS2TJ102	1/4W 1K
R361, 362	ERDS2TJ104	1/4W 100K
R363	ERDS2TJ183T	1/4W 18K
R364	ERDS2TJ104	1/4W 100K
R365	ERDS2TJ222	1/4W 2.2K
R366	ERDS2TJ103	1/4W 10K
R367	ERDS2TJ820	1/4W 82
R368	ERDS2TJ180T	1/4W 18
R369	ERD25FJ180	1/4W 18
R401	ERDS2TJ563	1/4W 56K
R402	ERDS2TJ103	1/4W 10K
R403	ERDS2TJ104	1/4W 100K

Ref. No.	Part No.	Values & Remarks
R404	ERDS2TJ473	1/4W 47K
R405	ERDS2TJ393	1/4W 39K
R406	ERDS2TJ563	1/4W 56K
R407	ERDS2TJ103	1/4W 10K
R408	ERDS2TJ823T	1/4W 82K
R409, 410	ERDS2TJ473	1/4W 47K
R411	ERDS2TJ153	1/4W 15K
R412	ERDS2TJ393	1/4W 39K
R413	ERDS2TJ824	1/4W 820K
R414	ERDS2TJ562	1/4W 5.6K
R415	ERDS2TJ681	1/4W 680
R417	ERDS2TJ102	1/4W 1K
R418	ERDS2TJ473	1/4W 47K
R419	ERDS2TJ102	1/4W 1K
R420	ERDS2TJ222	1/4W 2.2K
R421	ERDS2TJ682T	1/4W 6.8K
R422	ERDS2TJ472	1/4W 4.7K
R423	ERDS2TJ331	1/4W 330
R424	ERDS2TJ471	1/4W 470
R425	ERDS2TJ103	1/4W 10K
R426	ERDS2TJ153	1/4W 15K
R427, 428	ERX1SJR47E	1W 0.47
R429	ERDS2TJ472	1/4W 4.7K
R430	ERDS2TJ104	1/4W 100K
R431	ERDS2TJ562	1/4W 5.6K
R432	ERDS2TJ152	1/4W 1.5K
R433, 434	ERDS2TJ102	1/4W 1K
R437	ERDS2TJ331	1/4W 330
R438	ERDS2TJ391	1/4W 390
R439	ERDS2TJ681	1/4W 680
R442	ERDS2TJ222	1/4W 2.2K
R501	ERDS2TJ563	1/4W 56K
R502	ERDS2TJ103	1/4W 10K
R503	ERDS2TJ104	1/4W 100K
R504	ERDS2TJ473	1/4W 47K
R505	ERDS2TJ393	1/4W 39K
R506	ERDS2TJ563	1/4W 56K
R507	ERDS2TJ103	1/4W 10K
R508	ERDS2TJ823T	1/4W 82K
R509, 510	ERDS2TJ473	1/4W 47K
R511	ERDS2TJ153	1/4W 15K
R512	ERDS2TJ393	1/4W 39K
R513	ERDS2TJ824	1/4W 820K
R514	ERDS2TJ562	1/4W 5.6K
R515	ERDS2TJ681	1/4W 680
R517	ERDS2TJ102	1/4W 1K
R518	ERDS2TJ473	1/4W 47K
R519	ERDS2TJ102	1/4W 1K
R520	ERDS2TJ222	1/4W 2.2K
R521	ERDS2TJ682T	1/4W 6.8K
R522	ERDS2TJ472	1/4W 4.7K
R523	ERDS2TJ331	1/4W 330

Ref. No.	Part No.	Values & Remarks
R524	ERDS2TJ471	1/4W 470
R525	ERDS2TJ103	1/4W 10K
R526	ERDS2TJ153	1/4W 15K
R527, 528	ERX1SJR47E	1W 0.47
R529	ERDS2TJ472	1/4W 4.7K
R530	ERDS2TJ104	1/4W 100K
R531	ERDS2TJ562	1/4W 5.6K
R532	ERDS2TJ152	1/4W 1.5K
R533, 534	ERDS2TJ102	1/4W 1K
R537	ERDS2TJ331	1/4W 330
R538	ERDS2TJ391	1/4W 390
R539	ERDS2TJ681	1/4W 680
R542	ERDS2TJ222	1/4W 2.2K
R601	ERDS2TJ472	1/4W 4.7K
R604	ERDS2TJ102	1/4W 1K
R605, 606	ERDS2TJ103	1/4W 10K
R607	ERDS2TJ393	1/4W 39K
R608, 609	ERDS2TJ104	1/4W 100K
R610	ERDS2TJ223	1/4W 22K
R611	ERDS2TJ152	1/4W 1.5K
R612	ERDS2TJ682T	1/4W 6.8K
R613	ERDS2TJ222	1/4W 2.2K
R614	ERDS2TJ272T	1/4W 2.7K
R615-617	ERDS2TJ103	1/4W 10K
R618, 619	ERDS2TJ102	1/4W 1K
R620-625	ERDS2TJ103	1/4W 10K
R626	ERDS2TJ101	1/4W 100
R627	ERDS2TJ332	1/4W 3.3K
R628	ERDS2TJ472	1/4W 4.7K
R629	ERDS2TJ334	1/4W 330K
R630	ERDS2TJ104	1/4W 100K
R631	ERDS2TJ474	1/4W 470K
R633	ERDS2TJ1R5T	1/4W 1.5
R634	ERDS2TJ273	1/4W 27K
R636	ERDS2TJ103	1/4W 10K
R638	ERDS2TJ472	1/4W 4.7K
R639	ERDS2TJ333	1/4W 33K
R640, 641	ERDS2TJ102	1/4W 1K
R643	ERDS2TJ472	1/4W 4.7K
R644-649	ERDS2TJ103	1/4W 10K
R650, 651	ERDS2TJ102	1/4W 1K
R652, 653	ERDS2TJ474	1/4W 470K
R655	ERDS2TJ472	1/4W 4.7K
R656	ERDS2TJ474	1/4W 470K
R657	ERDS2TJ152	1/4W 1.5K
R658	ERDS2TJ472	1/4W 4.7K
R659	ERDS2TJ101	1/4W 100
R660	ERDS2TJ472	1/4W 4.7K
R661	ERDS2TJ222	1/4W 2.2K
R662	ERDS2TJ102	1/4W 1K
R663	ERDS2TJ333	1/4W 33K
R665	ERDS2TJ222	1/4W 2.2K

Ref. No.	Part No.	Values & Remarks
R666	ERDS2TJ472	1/4W 4.7K
R667	ERDS2TJ105T	1/4W 1M
R668	ERDS2TJ471	1/4W 470
R670	ERDS2TJ102	1/4W 1K
R671	ERDS2TJ821	1/4W 820
R672	ERDS2TJ102	1/4W 1K
R673	ERDS2TJ103	1/4W 10K
R674	ERDS2TJ472	1/4W 4.7K
R675	ERDS2TJ103	1/4W 10K
R676	ERDS2TJ332	1/4W 3.3K
R679	ERDS2TJ102	1/4W 1K
R680	ERDS2TJ332	1/4W 3.3K
R682	ERDS2TJ151	1/4W 150
R683	ERDS2TJ392T	1/4W 3.9K
R684	ERDS2TJ562	1/4W 5.6K
R685	ERDS2TJ822	1/4W 8.2K
R686	ERDS2TJ153	1/4W 15K
R687	ERDS2TJ333	1/4W 33K
R688	ERDS2TJ272T	1/4W 2.7K
R689	ERDS2TJ222	1/4W 2.2K
R690	ERDS2TJ392T	1/4W 3.9K
R691	ERDS2TJ562	1/4W 5.6K
R692	ERDS2TJ822	1/4W 8.2K
R693	ERDS2TJ153	1/4W 15K
R694	ERDS2TJ333	1/4W 33K
R695	ERDS2TJ823T	1/4W 82K
R701	ERJ6GEYJ100	1/10W 10
R702	ERJ6GEYJ471V	1/10W 470
R703	ERJ6GEYJ823	1/10W 82K
R704	ERJ6GEYJ102A	1/10W 1K
R705	ERJ6GEYJ103V	1/10W 10K
R706	ERJ6GEYJ102A	1/10W 1K
R707	ERJ6GEYJ473V	1/10W 47K
R708	ERJ6GEYJ224V	1/10W 220K
R709	ERJ6GEYJ683V	1/10W 68K
R711	ERJ6GEYJ154V	1/10W 150K
R712	ERJ6GEYJ471V	1/10W 470
R714	ERJ6GEY0R00A	1/10W 0.00
R717	ERJ6GEYJ102A	1/10W 1K
R718	ERJ6GEYJ102A	1/10W 1K
R719	ERJ6GEYJ102A	1/10W 1K
R720	ERJ6GEYJ102A	1/10W 1K
R721	ERJ8GEYJ101V	1/10W 100
R722	ERJ6GEYJ473V	1/10W 47K
R723	ERJ6GEYJ182V	1/10W 1.8K
R724	ERJ6GEYJ333V	1/10W 33K
R725	ERJ6GEYJ472V	1/10W 4.7K
R726	ERJ6GEYJ473V	1/10W 47K
R727	ERJ6GEYJ103V	1/10W 10K
R728	ERJ6GEYJ392V	1/10W 3.9K
R730	ERJ6GEYJ331V	1/10W 330K
R731	ERJ6GEYJ392V	1/10W 3.9K

Ref. No.	Part No.	Values & Remarks
R734	ERJ6GEYJ101V	1/10W 100
R735	ERJ6GEYJ101V	1/10W 100
R736	ERJ6GEYJ101V	1/10W 100
R738	ERJ6GEYJ223V	1/10W 22K
R739	ERJ6GEYJ681V	1/10W 680
R741	ERJ6GEYJ562V	1/10W 5.6K
R742	ERJ6GEYJ562V	1/10W 5.6K
R743	ERJ6GEYJ562V	1/10W 5.6K
R744	ERJ6GEYJ103V	1/10W 10K
R745	ERJ6GEYJ155V	1/10W 1.5M
R746	ERJ8GEYJ103V	1/8W 10K
R747	ERJ6GEYJ473V	1/10W 47K
R801	ERDS2TJ152	1/4W 1.5K
R802	ERDS2TJ222	1/4W 2.2K
R805	ERDS2TJ123	1/4W 12K
R806	ERDS2TJ822	1/4W 8.2K
R807	ERDS2TJ153	1/4W 15K
R808	ERDS2TJ333	1/4W 33K
R809	ERDS2TJ823T	1/4W 82K
R812	ERDS2TJ152	1/4W 1.5K
R813	ERDS2TJ222	1/4W 2.2K
R814	ERDS2TJ272T	1/4W 2.7K
R815	ERDS2TJ392T	1/4W 3.9K
R816	ERDS2TJ562	1/4W 5.6K
R817	ERDS2TJ822	1/4W 8.2K
R818	ERDS2TJ153	1/4W 15K
R819	ERDS2TJ333	1/4W 33K
R820	ERDS2TJ153	1/4W 15K
R821	ERDS2TJ152	1/4W 1.5K
R822	ERDS2TJ222	1/4W 2.2K
R823	ERDS2TJ272T	1/4W 2.7K
R824	ERDS2TJ153	1/4W 15K
R825	ERDS2TJ331	1/4W 330
R826	ERDS2TJ103	1/4W 10K
R828	ERDS2TJ103	1/4W 10K
R829, 830	ERDS2TJ472	1/4W 4.7K
R831	ERDS2TJ103	1/4W 10K
R832	ERDS2TJ153	1/4W 15K
R833	ERDS2TJ152	1/4W 1.5K
R841-843	ERDS2TJ682T	1/4W 6.8K
R844, 845	ERDS2TJ471	1/4W 470
R851, 852	ERDS2TJ471	1/4W 470
R853, 854	ERDS2TJ104	1/4W 100K
R855-857	ERDS2TJ471	1/4W 470
R859	ERDS2TJ153	1/4W 15K
R860	ERDS2TJ471	1/4W 470
R862	ERDS2TJ102	1/4W 1K
R864	ERDS2TJ102	1/4W 1K
R865	ERDS2TJ103	1/4W 10K
R866	ERDS2TJ823T	1/4W 82K
R867	ERDS2TJ104	1/4W 100K
R868	ERDS2TJ823T	1/4W 82K

Ref. No.	Part No.	Values & Remarks
R869	ERDS2TJ102	1/4W 1K
R870	ERDS2TJ105T	1/4W 1M
R871	ERDS2TJ106T	1/4W 10M
R872	ERDS2TJ224T	1/4W 220K
R873	ERDS2TJ104	1/4W 100K
R874	ERDS2TJ103	1/4W 10K
R875	ERDS2TJ223	1/4W 22K
R876	ERDS2TJ103	1/4W 10K
R877, 878	ERDS2TJ474	1/4W 470K
R879	ERDS2TJ103	1/4W 10K
R880	ERDS2TJ472	1/4W 4.7K
R882-884	ERDS2TJ103	1/4W 10K
R888, 889	ERDS2TJ104	1/4W 100K
R890	ERDS2TJ103	1/4W 10K
R893	ERDS2TJ102	1/4W 1K
R894, 895	ERDS2TJ472	1/4W 4.7K
R896	ERDS2TJ103	1/4W 10K
R897, 898	ERDS2TJ472	1/4W 4.7K
R1233, 1234	ERDS2TJ103	1/4W 10K
R1235	ERDS2TJ472	1/4W 4.7K
R2602	ERDS2TJ154	1/4W 150K
R2603	ERDS2TJ472	1/4W 4.7K
R2604	ERDS2TJ221	1/4W 220
R2605	ERDS2TJ330	1/4W 33
R2606	ERDS2TJ472	1/4W 4.7K
R2607-2609	ERDS2TJ272T	1/4W 2.7K
R3451, 3452	ERDS2TJ472	1/4W 4.7K
R3453	ERDS2TJ103	1/4W 10K
R3551, 3552	ERDS2TJ472	1/4W 4.7K
R3553	ERDS2TJ103	1/4W 10K
R3653-3655	ERDS2TJ102	1/4W 1K
R3657-3659	ERDS2TJ104	1/4W 100K
R4601	ERDS2TYJ153T	1/4W 15K
R4602	ERDS2TYJ122T	1/4W 1.2K
R5001	ERDS2TJ331	1/4W 330
R5002, 5003	ERDS2EJ121	1/4W 120
R5004	ERDS2TJ472	1/4W 4.7K
R5005	ERDS2TJ1R5T	1/4W 1.5
		CAPACITORS
C1	ECBT1H180JC5	50V 18P
C2	ECBT1H102KB5	50V 1000P
C3	ECBT1H330J5	50V 33P
C4	ECBT1H102KB5	50V 1000P
C5	ECBT1C103MS5	16V 0.01U
C6, 7	ECBT1H181KB5	50V 180P
C8	ECBT1H102KB5	50V 1000P
C9	ECBT1H4R7KC5	50V 4.7P
C10	ECBT1H2R2KC5	50V 2.2P
C11, 12	ECBT1H102KB5	50V 1000P
C14, 15	ECBT1H102KB5	50V 1000P

Ref. No.	Part No.	Values & Remarks
C18	ECBT1H150JC5	50V 15P
C19	ECBT1H100JC5	50V 10P
C20	ECFR1C473MR	16V 0.047U
C23	ECEA1HN010	50V 1U
C24	ECBT1C103MS5	16V 0.01U
C25	ECFR1C223MR	16V 0.022U
C26	ECEA1CU101	16V 100U
C27	ECBT1C103MS5	16V 0.01U
C29	ECEA1HU010	50V 1U
C30	ECBT1H270J5	50V 27P
C31	ECEA1AU470	10V 47U
C32	ECFR1C223MR	16V 0.022U
C33, 34	ECEA1CU100	16V 10U
C35	ECFR1C223MR	16V 0.022U
C36	ECBT1H331KB5	50V 330P
C37	ECFR1C683MR	16V 0.068U
C38, 39	ECFR1C823MR	16V 0.082U
C40, 41	ECFR1C123MR	16V 0.012U
C44	ECBT1H330J5	50V 33P
C45	ECFR1C223MR	16V 0.022U
C46	ECEA0JU101B	6.3V 100U
C47	ECFR1C223MR	16V 0.022U
C48	ECEA1CU100	16V 10U
C49	ECBT1H270J5	50V 27P
C50	ECBT1H300J5	50V 30P
C51	ECBT1H102KB5	50V 1000P
C52	ECEA1EU3R3	25V 3.3U
C53	ECEA1HU010	50V 1U
C62	ECFR1C103MR	16V 0.01U
C63	ECBT1H150JC5	50V 15P
C64, 65	ECFR1C223MR	16V 0.022U
C66	ECBT1H102KB5	50V 1000P
C67	ECBT1H471KB5	50V 470P
C69	ECBT1C332MR5	16V 3300P
C71	ECBT1H102KB5	50V 1000P
C72	ECBT1H331KB5	50V 330P
C74	ECBT1H470J5	50V 47P
C77	ECBT1H181KB5	50V 180P
C78	ECBT1H331KB5	50V 330P
C82	ECBT1C103MS5	16V 0.01U
C101	ECBT1H102KB5	50V 1000P
C104	ECFR1C333JR	16V 0.033U
C105, 106	ECBT1H471KB5	50V 470P
C107	ECFR1C183KR	16V 0.018U
C108	ECEA1HK010B	50V 1U
C109	ECEA1EK4R7	25V 4.7U
C110	ECEA1HK010B	50V 1U
C111	ECBT1H102KB5	50V 1000P
C112	ECFR1C473MR	16V 0.047U
C113	ECEA1HK010B	50V 1U
C115	ECBT1H151KB5	50V 150P
C116	ECBT1H221KB5	50V 220P

Ref. No.	Part No.	Values & Remarks
C117	ECEA1EK4R7	25V 4.7U
C118	ECBT1H102KB5	50V 1000P
C119	ECBT1C332KR5	16V 3300P
C120	ECEA1HK010B	50V 1U
C121	ECBT1H331KB5	50V 330P
C122	ECEA1EK4R7	25V 4.7U
C123	ECBA1H681KB5	50V 680P
C124	ECEA0JK221B	6.3V 220U
C125	ECBT1C682KR5	16V 6800P
C126	ECEA1HK010B	50V 1U
C127	ECEA1EK4R7	25V 4.7U
C128	ECEA1HFSR68T	50V 0.68U
C129	ECEA1EK4R7	25V 4.7U
C201	ECBT1H102KB5	50V 1000P
C204	ECFR1C333JR	16V 0.033U
C205, 206	ECBT1H471KB5	50V 470P
C207	ECFR1C183KR	16V 0.018U
C208	ECEA1HK010B	50V 1U
C209	ECEA1EK4R7	25V 4.7U
C210	ECEA1HK010B	50V 1U
C211	ECBT1H102KB5	50V 1000P
C212	ECFR1C473MR	16V 0.047U
C213	ECEA1HK010B	50V 1U
C215	ECBT1H151KB5	50V 150P
C216	ECBT1H221KB5	50V 220P
C217	ECEA1EK4R7	25V 4.7U
C218	ECBT1H102KB5	50V 1000P
C219	ECBT1C332KR5	16V 3300P
C220	ECEA1HK010B	50V 1U
C221	ECBT1H331KB5	50V 330P
C222	ECEA1EK4R7	25V 4.7U
C223	ECBA1H681KB5	50V 680P
C224	ECEA0JK221B	6.3V 220U
C225	ECBT1C682KR5	16V 6800P
C226	ECEA1HK010B	50V 1U
C227	ECEA1EK4R7	25V 4.7U
C228	ECEA1HFSR68T	50V 0.68U
C229	ECEA1EK4R7	25V 4.7U
C301	ECBT1C103MS5	16V 0.01U
C302	ECEA1HKNR47B	50V 0.47U
C303	ECQP2A152JZT	100V0.0015U
C304	ECQS2B272KZW	120V 2700P
C305	ECBT1C103MS5	16V 0.01U
C306	ECQP2E392JZT	50V 3900P
C307	ECEA1HU010BG	50V 1U
C308	ECQV1H473JZ3	50V 0.047U
C309	ECEA1AU101BG	10V 100U
C310, 311	ECBT1H102KB5	50V 1000P
C312, 313	ECFR1C103KR	16V 0.01U
C315	ECEA1AU330BG	10V 33U
C316	ECEA1AU101BG	10V 100U
C318	ECEA1CK100B	16V 10U

Ref. No.	Part No.	Values & Remarks
C319	ECEA1HK0R1	50V 0.1U
C320	ECFR1C223MR	16V 0.022U
C321	ECEA1HK010B	50V 1U
C322	ECEA1CU101BG	16V 100U
C323	ECBT1C103MS5	16V 0.01U
C325, 326	ECEA1AU101BG	10V 100U
C327	ECA1AM471B	10V 470U
C328	ECFR1C223MR	16V 0.022U
C329, 330	ECEA0JU470BG	6.3V 47U
C331	ECBT1H104ZF5	50V 0.1U
C333	ECEA1HK0R1	50V 0.1U
C334	ECEA1EK4R7	25V 4.7U
C335	ECEA0JU470BG	6.3V 47U
C336, 337	ECBA1H681KB5	50V 680P
C401	ECEA1HK010B	50V 1U
C402	ECBT1H101KB5	50V 100P
C403	ECEA1HKR22B	50V 0.22U
C404	ECBT1H331KB5	50V 330P
C405	ECBT1H101KB5	50V 100P
C406	ECEA1HK010B	50V 1U
C407, 408	ECEA1EK4R7	25V 4.7U
C409, 410	ECBT1H102KB5	50V 1000P
C411	ECA1CM222E	16V 2200U
C412	ECEA1VU220	35V 22U
C413, 414	ECQM1H224JZ	50V 0.22U
C415	ECBT1H102KB5	50V 1000P
C416	ECEA1HK010B	50V 1U
C420	ECEA1HKR22B	50V 0.22U
C424, 425	ECQM1H224JZ	50V 0.22U
C426	ECBT1C103MS5	16V 0.01U
C501	ECEA1HK010B	50V 1U
C502	ECBT1H101KB5	50V 100P
C503	ECEA1HKR22B	50V 0.22U
C504	ECBT1H331KB5	50V 330P
C505	ECBT1H101KB5	50V 100P
C506	ECEA1HK010B	50V 1U
C507, 508	ECEA1EK4R7	25V 4.7U
C509, 510	ECBT1H102KB5	50V 1000P
C511	ECA1CM222E	16V 2200U
C512	ECEA1VU220	35V 22U
C513, 514	ECQM1H224JZ	50V 0.22U
C515	ECBT1H102KB5	50V 1000P
C516	ECEA1HK010B	50V 1U
C520	ECEA1HKR22B	50V 0.22U
C524, 525	ECQM1H224JZ	50V 0.22U
C526	ECBT1C103MS5	16V 0.01U
C602, 603	ECBT1C103MS5	16V 0.01U
C604	ECBT1H104ZF5	50V 0.1U
C605	ECEA1HK010B	50V 1U
C606	ECEA1AU331	10V 330U
C607	ECEA0JU470B	6.3V 47U
C608	ECEA1CK100B	16V 10U

Ref. No.	Part No.	Values & Remarks
C609	ECBT1C152MR5	16V 1500P
C610, 611	ECBT1C332MR5	16V 3300P
C612	ECBT1C152MR5	16V 1500P
C613	ECEA1EK4R7	25V 4.7U
C614	ECEA1HK010B	50V 1U
C615, 616	ECBT1C103MS5	16V 0.01U
C617	ECEA1AU101	10V 100U
C618	ECEA1AU221	10V 220U
C619	ECA1AKF820B	10V 82U
C620-625	ECEA1EK4R7	25V 4.7U
C626	ECEA1EU4R7	25V 4.7U
C627	ECBT1H471KB5	50V 470P
C629	ECEA1AU221	10V 220U
C630	ECEA1AU102B	10V 1000U
C631 ⚠	ECA1EM682	25V 6800U
C632	ECBT1H102KB5	50V 1000P
C633	ECBT1C103MS5	16V 0.01U
C634	ECBT1H330J5	50V 33P
C635	ECBT1H102KB5	50V 1000P
C639-641	ECBT1H561KB5	50V 560P
C642	ECEA1AU221	10V 220U
C643	ECEA1EK4R7	25V 4.7U
C644	ECEA0JU221	6.3V 220U
C645, 646	ECEA1CK100B	16V 10U
C647	ECEA1AU101	10V 100U
C648	ECBT1H471KB5	50V 470P
C649	ECEA1HK010B	50V 1U
C656	ECEA1AU101	10V 100U
C657	ECEA1CK100B	16V 10U
C658	ECBT1H101KB5	50V 100P
C659	ECBT1H102KB5	50V 1000P
C660	ECEA1CK100B	16V 10U
C661	ECEA1EK4R7	25V 4.7U
C662	ECBT1H102KB5	50V 1000P
C663	ECEA1AU330	10V 33U
C664	ECEA1AU220B	10V 22U
C665	ECEA1HK010B	50V 1U
C666	ECKT1H223ZF	50V 0.022U
C667, 668	ECBT1H471KB5	50V 470P
C671	ECEA0JK101	6.3V 100U
C680-683	ECQV1H184JZ3	50V 0.18U
C684	ECKR1H473ZF5	50V 0.047U
C701	ECEA0JKA220	6.3V 22U
C702	ECEA1HKA010I	50V 1U
C703	ECEA0JKA101I	6.3V 100U
C704	ECUZ1E104MBN	25V 0.1U
C705	ECEA1HKA010I	50V 1U
C706	ECUE1H101JCN	50V 100P
C708	ECUE1H472KBN	50V 4700P
C709	ECUE1C473KBN	16V 0.047U
C710	ECUE1H152KBN	50V 1500P
C711	ECUZ1E104MBN	25V 0.1U

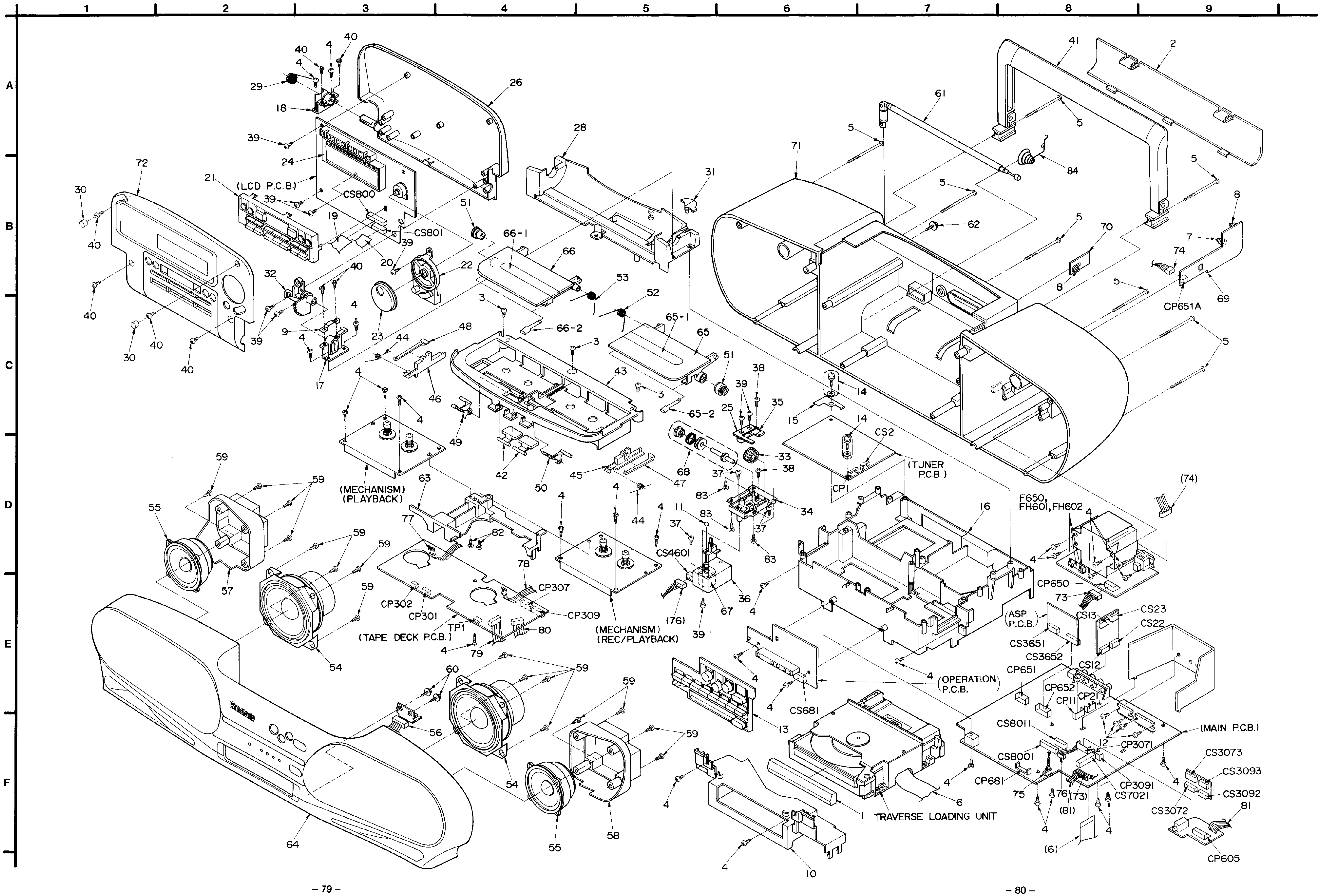
Ref. No.	Part No.	Values & Remarks
C712	ECUZ1E104MBN	25V 0.1U
C713	ECUV1C104MBM	16V 0.1U
C714	ECEA0JKA101I	6.3V 100U
C715	ECEA0JKA470I	6.3V 47U
C716	ECUE1H561KBN	50V 560P
C717	ECUZ1E104MBN	25V 0.1U
C718	ECUV1C224KBM	16V 0.22U
C719	ECUV1C224KBM	16V 0.22U
C721	ECUE1H100DCN	50V 10P
C722	ECUE1H100DCN	50V 10P
C723	ECEA1AKA221I	10V 220U
C724	ECUV1C104MBM	16V 0.1U
C725	ECUE1H102KBN	50V 1000P
C726	ECUE1H102KBN	50V 1000P
C727	ECEA1HKA010I	50V 1U
C728	ECEA1HKA010I	50V 1U
C730	ECUZ1E104MBN	25V 0.1U
C731	ECA05SD151I	6.3V 150U
C732	ECA05SD151I	6.3V 150U
C733	ECUZ1E104MBN	25V 0.1U
C734	ECEA1AKA221I	10V 220U
C735	ECUZNE104MBN	25V 0.1U
C736	ECUZNE104MBN	25V 0.1U
C737	ECUZNE104MBN	25V 0.1U
C738	ECUV1C154KBN	16V 0.15U
C742	ECUV1E273KBN	25V 0.027U
C743	ECUZNE104MBN	25V 0.1U
C744	ECUE1E822KBN	25V 8200P
C745	ECUE1C473MBN	16V 0.047U
C746	ECUE1H050DCN	50V 5P
C747	ECUE1H222KBN	50V 2200P
C748	ECUV1H271KBM	50V 270P
C790	ECEA1AKF820E	10V 82U
C801	ECBT1H102KB5	50V 1000P
C802	ECEA0JK101	6.3V 100U
C803	ECBT1H102KB5	50V 1000P
C804	ECA1AKF820B	10V 82U
C805, 806	ECBT1H101KB5	50V 100P
C807, 808	ECBT1C103MS5	16V 0.01U
C809, 810	ECBT1H220JC5	50V 22P
C811	ECEA0JK470	6.3V 47U
C812	ECBT1H151KB5	50V 150P
C813, 814	ECBT1H561KB5	50V 560P
C830	ECEA1EK4R7	25V 4.7U
C844, 845	ECBT1C103MS5	16V 0.01U
C851	ECBT1H561KB5	50V 560P
C852	ECBT1C103MS5	16V 0.01U
C853	ECEA1HK010B	50V 1U
C854	ECBT1H820KB5	50V 82P
C855, 856	ECBT1H102KB5	50V 1000P
C858	ECBT1H102KB5	50V 1000P
C860	ECBT1H561KB5	50V 560P

Ref. No.	Part No.	Values & Remarks
C867, 868	ECBT1H151KB5	50V 150P
C872	ECBT1H561KB5	50V 560P
C876, 877	ECBT1H561KB5	50V 560P
C894	ECBT1H470J5	50V 47P
C895	ECBT1H102KB5	50V 1000P
C951	ECBT1H101KB5	50V 100P
C971	ECBT1H101KB5	50V 100P
C3452, 3453	ECEA1CK100B	16V 10U
C3454	ECBT1C222MR5	16V 2200P
C3455, 3456	ECFR1C333KR	16V 0.033U
C3457	ECEA1CK100B	16V 10U
C3458	ECEA1HKR33	50V 0.33U
C3459	ECEA1HKAR15B	50V 0.15U
C3460	ECEA1HK010B	50V 1U
C3461	ECEA1EK4R7	25V 4.7U
C3462	ECEA1CK100B	16V 10U
C3463	ECEA1EK4R7	25V 4.7U
C3464	ECBT1H101KB5	50V 100P
C3465	ECBT1C103MS5	16V 0.01U
C3552, 3553	ECEA1CK100B	16V 10U
C3554	ECBT1C222MR5	16V 2200P
C3555, 3556	ECFR1C333KR	16V 0.033U
C3557	ECEA1CK100B	16V 10U
C3558	ECEA1HKR33	50V 0.33U
C3559	ECEA1HKAR15B	50V 0.15U
C3560	ECEA1HK010B	50V 1U
C3561	ECEA1EK4R7	25V 4.7U
C3562	ECEA1CK100B	16V 10U
C3563	ECEA1EK4R7	25V 4.7U
C3564	ECBT1H101KB5	50V 100P
C3565	ECBT1C103MS5	16V 0.01U
C3651, 3652	ECEA1CK100B	16V 10U
C3653	ECEA1EK4R7	25V 4.7U
C3654	ECEA1AK101	10V 100U
C4601	ECEA1AU101	10V 100U
C4602	ECKD1H561KB5	50V 560P
C5001	ECEA0JU101B	6.3V 100U
C5002, 5003	ECBT1C103MS5	16V 0.01U
C5004, 5005	ECBT1H102KB5	50V 1000P
		CHIP JUMPERS
RJ701	ERJ8GEY0R00A	1/10W 0
RJ702	ERJ8GEY0R00A	1/10W 0
RJ703	ERJ8GEY0R00A	1/10W 0
RJ704	ERJ8GEY0R00A	1/10W 0
RJ705	ERJ8GEY0R00A	1/10W 0
RJ706	ERJ8GEY0R00A	1/10W 0
RJ707	ERJ8GEY0R00A	1/10W 0
RJ708	ERJ8GEY0R00A	1/10W 0
RJ709	ERJ8GEY0R00A	1/10W 0
RJ710	ERJ8GEY0R00A	1/10W 0

Ref. No.	Part No.	Values & Remarks
RJ711	ERJ8GEY0R00A	1/10W 0
RJ712	ERJ8GEY0R00A	1/10W 0
RJ713	ERJ8GEY0R00A	1/10W 0
RJ714	ERJ8GEY0R00A	1/10W 0
RJ715	ERJ8GEY0R00A	1/10W 0
RJ716	ERJ8GEY0R00A	1/10W 0
RJ717	ERJ8GEY0R00A	1/10W 0
RJ721	ERJ6GEY0R00A	1/10W 0
RJ722	ERJ6GEY0R00A	1/10W 0
RJ724	ERJ6GEY0R00A	1/10W 0
RJ725	ERJ6GEY0R00A	1/10W 0
RJ726	ERJ6GEY0R00A	1/10W 0
		TEST JUMPER(S)
TJ701	RRJ8GET001H	TEST JUMPER
TJ702	RRJ8GET001H	TEST JUMPER

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RGK0435-K	CD TRAY COVER	
2	RKK0041-K	BATTERY COVER	
3	XTV3+12GFZ	SCREW	
4	XTV3+12G	SCREW	
5	XTV3+60G	SCREW	
6	REE0447	FPC(23P)	
7	RJC511ZB	BATTERY TERMINAL(-)	
8	RJC751ZA	BATTERY TERMINAL(-),BACK-UP	
9	RMC0161	HOLDER(SPRING)	
10	RMK0140	HOLDER	
11	RDB0050	STEEL BALL	
12	XTV3+10F	SCREW	
13	RGU0710B-K	BUTTON,FRONT PANEL	
14	RHD30006	SCREW	
15	RJR0082	ANTENNA TERMINAL	
16	RMK0139B	CHASSIS	
17	RDB0043A	HOLDER(R)	
18	RDB0044	HOLDER(L)	
19	REE0361-2	FPC(23P)	
20	REE0362-1	FPC(15P)	
21	RGU0708-K	BUTTON,TOP PANEL	
22	RGU0709-K	BUTTON,CANCEL/SET	
23	RGW0135-K	KNOB,AI JOG	
24	RMN0152	LCD HOLDER	
25	RMC0159-1	LEAF SPRING	
26	RKF0246C-K	TOP PANEL(OUTER)	
28	RKQ0099-K	HOLDER	
29	RMB0218A	SPRING	
30	RMG0249-K	RUBBER	
31	RMR0499	LOCK PIECE	
32	RMS0330	GEAR	
33	RDG0181	GEAR	
34	RMK0138	CHASSIS	
35	RMR0498	HOLDER	
36	RSC0241	SHIELD PLATE	
37	XQN2+C3	SCREW	
38	XTV26+12F	SCREW	
39	XTV26+8G	SCREW	
40	XTN26+8GFZ	SCREW	
41	RYH0007-K	HANDLE ASS'Y	
42	RGU0706-K	BUTTON,EJECT	
43	RKQ0098-K	PANEL	
44	RME0101	SPRING	
45	RML0234	LEVER	
46	RML0235	LEVER	
47	RML0236	LEVER	
48	RML0237	LEVER	
49	RML0238	LEVER	
50	RML0239	LEVER	
51	RDG0183	GEAR	
52	RME0099	SPRING	
53	RME0100	SPRING	
54	EAS10PL478B	SPEAKER(WOOFER)	
55	EAS8PH64A	SPEAKER(TWEETER)	
56	REX0404Y	CABLE ASS'Y	
57	RKP0021	SPEAKER COVER(L)	
58	RKP0022	SPEAKER COVER(R)	
59	XTV3+10G	SCREW	
60	XTW3+W10P	SCREW	
61	XEARR225CA-Y	TELESCOPIC ANTENNA	
62	XYN3+F12FY	SCREW	
63	RMK0059-3	CHASSIS	
64	RFKGXDT707EA	FRONT CABINET ASS'Y	
65	RFKLXDT707AK	CASSETTE HOLDER ASS'Y	DECK 2
65-1	RGP0245-Q	PANEL(R)	
65-2	RUS757ZA	SPRING	
66	RFKLXDT707BK	CASSETTE HOLDER ASS'Y	DECK 1
66-1	RGP0246-Q	PANEL(L)	
66-2	RUS757ZA	SPRING	
67	RFKPXDT707K	MOTOR ASS'Y	
68	RFKNXDT707K	GEAR ASS'Y	
69	RFKBXDT707AK	P.C.B.	
70	RFKBXDT707BK	P.C.B.	
71	RFKHXDT707BK	REAR CABINET ASS'Y	(EB)
71	RFKHXDT707GK	REAR CABINET ASS'Y	(EG)
72	RFKGXDT707PB	TOP PANEL ASS'Y	
73	REX0495	CABLE ASS'Y(CW650)	
74	REX0504	CABLE HOLDER(CW653)	
75	REX0408Y	CABLE ASS'Y(CW790)	
76	REX0408Y	CABLE ASS'Y(CW4601)	
77	RWJ1107075QQ	FLAT CABLE(W303)	
78	RWJ1110075QQ	FLAT CABLE(W304)	
79	RWJ4704215KR	FLAT CABLE(W305)	
80	RWJ4704105KR	FLAT CABLE(W306)	
81	RWJ1109100QQ	FLAT CABLE(W604)	
82	XTV26+8G	SCREW	
83	XTV26+10GFZ	SCREW	
84	RJC931ZC	BATTERY TERMINAL(+/-)	

■ CABINET PARTS LOCATION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29
18
26
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72
21
(LCD P.C.B)
CS800
30
40
19
CS801
20
51
66-1
66
31
22
32
9
23
44
48
17
46
43
53
52
65-1
65
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66-2
65-2
49
42
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68
25
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38
33
37
34
83
11
36
67
CS4601
(76)
(MECHANISM)
(PLAYBACK)
(MECHANISM)
(REC/PLAYBACK)
63
77
82
78
CP307
CP302
CP301
CP309
TP1
(TAPE DECK P.C.B.)
80
79
59
55
57
54
60
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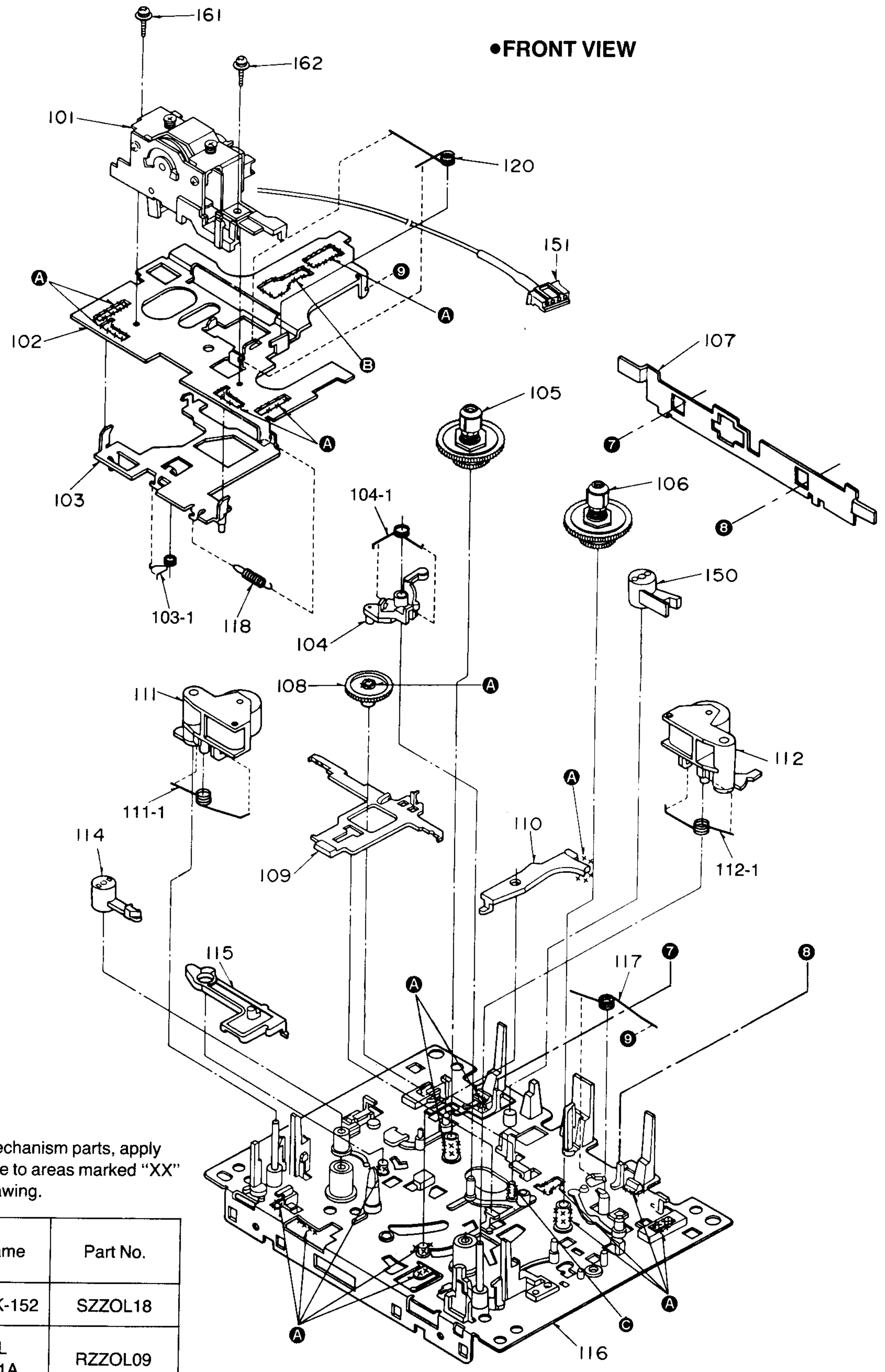
58
64
13
CS681
10
1
TRAVERSE LOADING UNIT
6
41
2
61
5
71
84
62
70
8
7
74
69
CP651A
14
15
CS2
CP1
(TUNER P.C.B.)
16
(74)
F650, FH601, FH602
CP650
73
(ASP P.C.B.)
CS13
CS23
CS22
CS3651
CS3652
CS12
(OPERATION P.C.B.)
CP651
CP652
CP11
CP21
CS8011
12
CP3071
(MAIN P.C.B.)
CS8001
CP681
75
76
(73)
(81)
CP3091
CS7021
CS3073
CS3093
CS3092
CS3072
81
CP605
(6)

■ MECHANISM PARTS LOCATION •DECK 1 (PLAYBACK)

•FRONT VIEW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104-1
103-1
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108
A
111
112
111-1
A
110
114
109
112-1
115
117
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A
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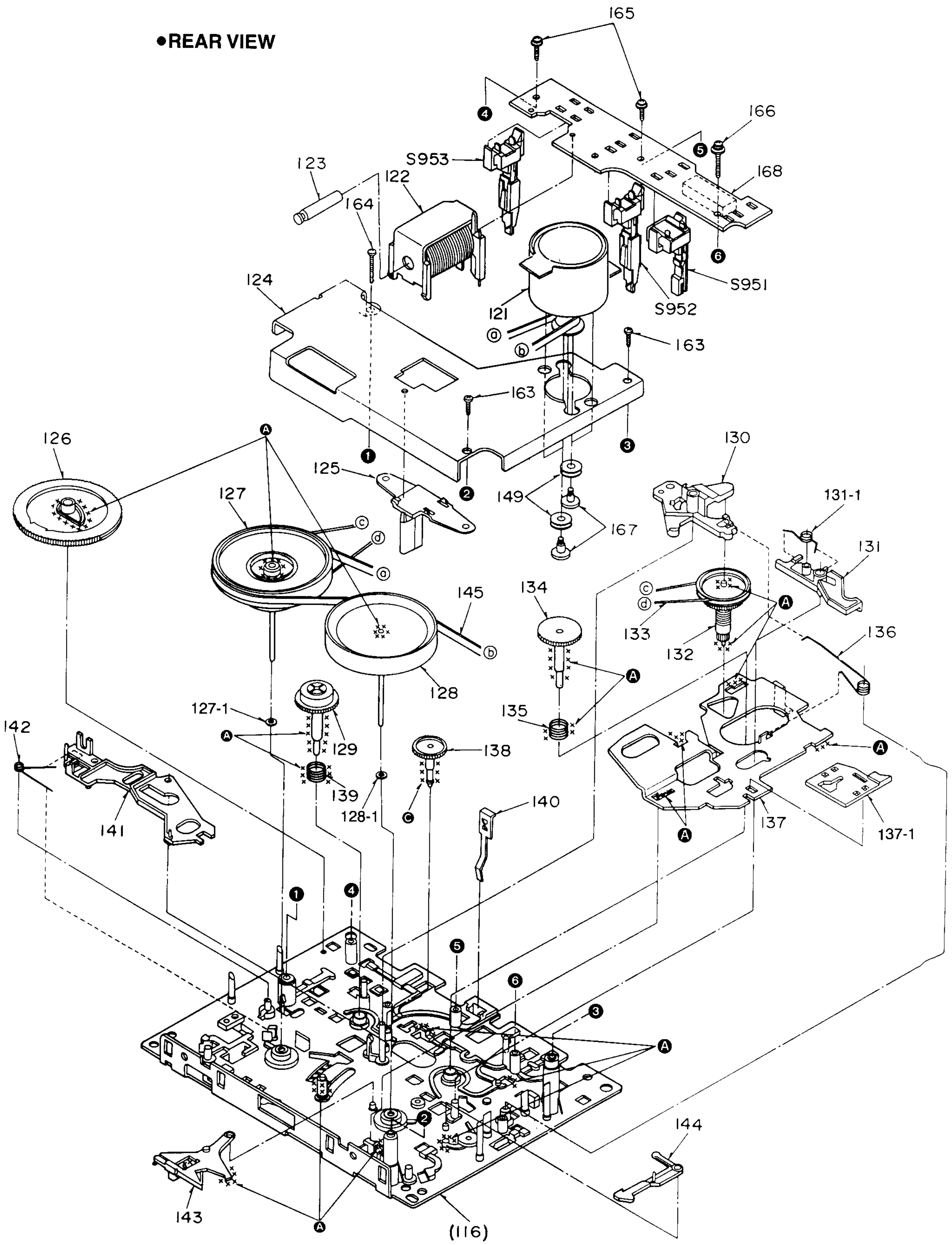
A
C
116
A

•REAR VIEW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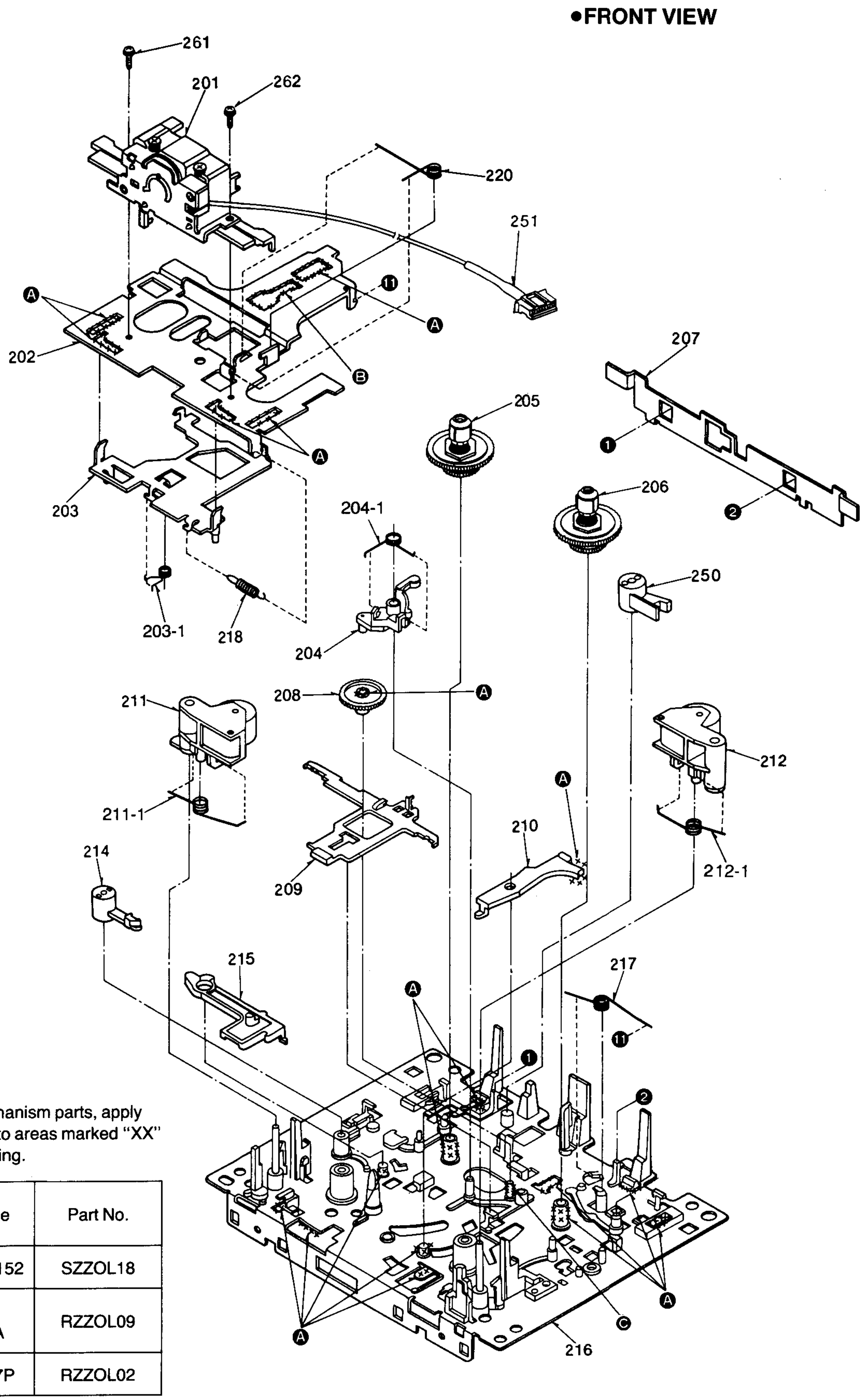
168
S953
123
122
164
S951
6
124
S952
121
a
b
163
163
3
126
A
1
2
125
127
c
d
a
149
167
130
131-1
131
145
134
c
d
133
A
132
136
b
128
A
135
127-1
A
129
138
142
139
128-1
c
140
A
141
137
137-1
A
1
4
5
6
3
A
2
144
143
A
(116)

Note:
When changing mechanism parts, apply the specified grease to areas marked "XX" as shown in the drawing.

Ref. No.	Part Name	Part No.
Ⓐ	FLOIL AK-152	SZZOL18
Ⓑ	FLOIL GP-501A	RZZOL09
Ⓒ	FLOIL 947P	RZZOL02

■ MECHANISM PARTS LOCATION •DECK 2 (RECORD/PLAYBACK)


1
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A
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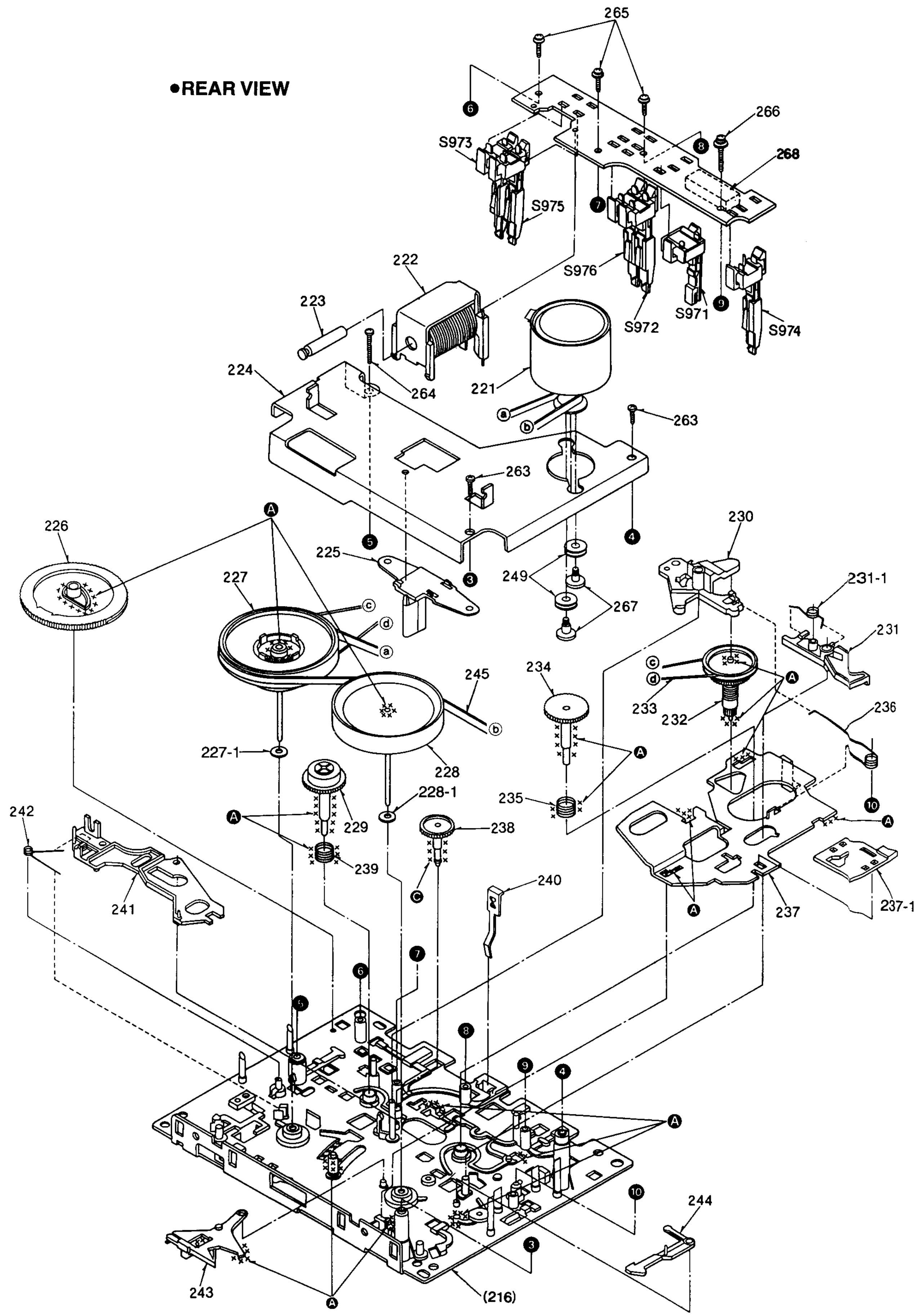
C
D
E
F
•FRONT VIEW
261
201
262
220
251
⓫
A
B
202
207
205
❶
❷
203
204-1
206
250
203-1
218
204
211
208
212
211-1
210
214
212-1
209
215
217
⓫
E
❶
❷
C
216

Note:
When changing mechanism parts, apply the specified grease to areas marked "XX" as shown in the drawing.

Ref. No.	Part Name	Part No.
A	FLOIL AK-152	SZZOL18
B	FLOIL GP-501A	RZZOL09
C	FLOIL 947P	RZZOL02


6
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8
9
•REAR VIEW
265
❻
S973
266
❽
268
S975
❼
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S976
223
S972
S971
❾
S974
224
264
221
ⓐ
ⓑ
263
263
226
A
❺
❹
230
225
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227
ⓒ
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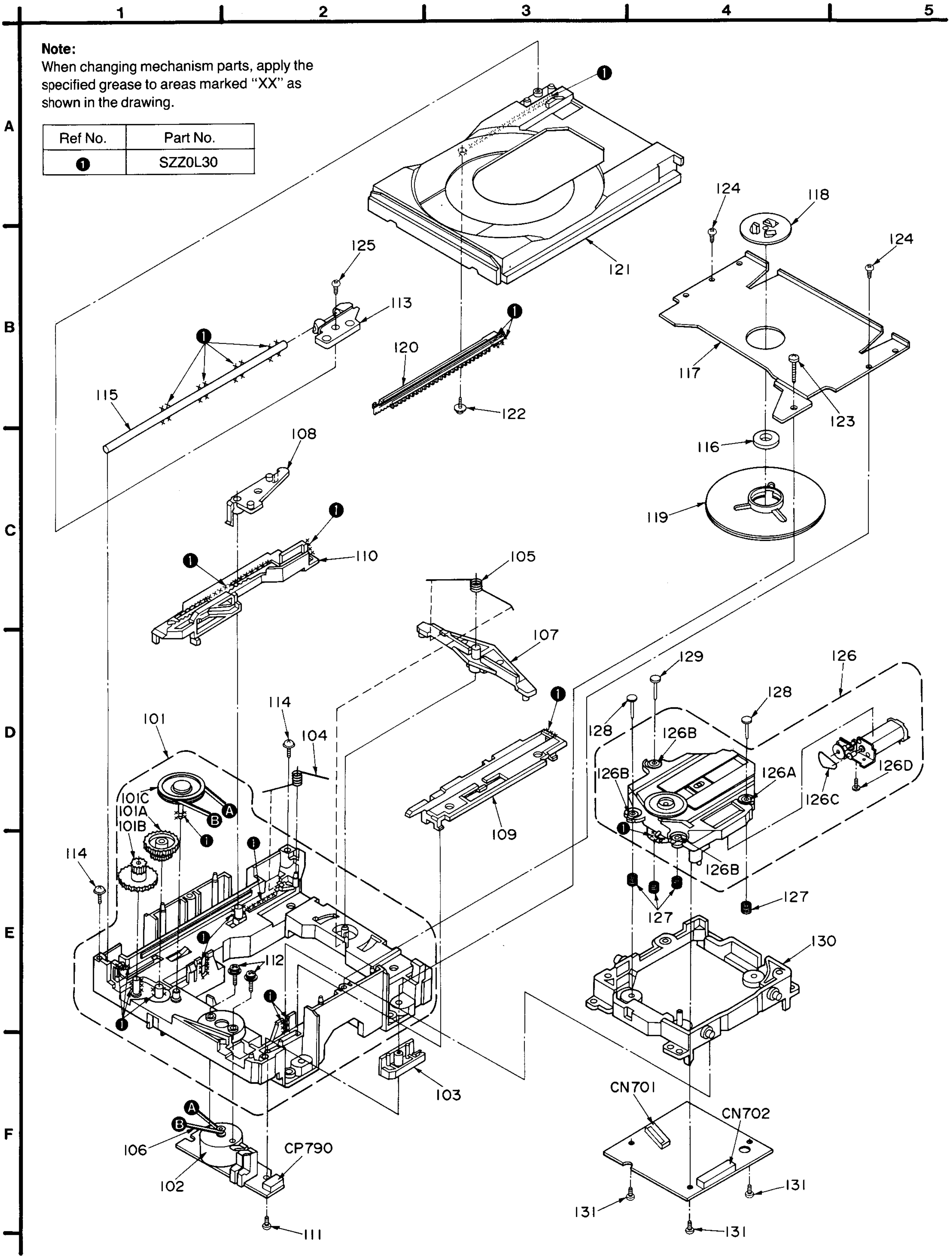
ⓐ
249
267
231-1
231
245
234
ⓒ
ⓓ
233
232
236
ⓑ
227-1
228
228-1
235
10
242
229
238
239
240
241
C
237
237-1
❼
❻
❺
❽
❾
❹
❿
244
243
❸
(216)

Ref. No.	Part No.	Part Name & Description	Remarks
		MECHANISM PARTS	
		DECK 1 (P.B)	
101	RXQ0051-2	HEAD ASS'Y	
101-1	RHE5152ZB	SCREW	
101-2	RUQ90ZC	SPRING	
102	RUA793ZF	HEAD BASE	
103	RZLAR300	LEVER ASS'Y	
103-1	RUW143ZA	SPRING	
104	1UB0089ZA	ARM ASS'Y	
104-1	RUW148ZA	SPRING	
105	1DM0018ZB	REEL TABLE ASS'Y	
106	1DM0017ZB	REEL TABLE ASS'Y	
107	RML0069-1	LEVER	
108	RDG5772ZC	GEAR	
109	RUB508ZB	LEVER	
110	RUB506ZB	LEVER	
111	1UB0088ZB	PINCH ROLLER ASS'Y	
111-1	RMB0310	SPRING	
112	1UB0087ZB	PINCH ROLLER ASS'Y	
112A	RUW140ZC	SPRING	
114	RNL1ZD	ARM	
115	RUB503ZD	LEVER	
116	RFKRAA0320	CHASSIS ASS'Y	
117	RUW142ZA	SPRING	
118	RUD105ZA	SPRING	
120	RUW139ZA	SPRING	
121	RFKPAA0309	MOTOR ASS'Y	
122	1UE0015ZA	PLUNGER	
123	RUB428ZE	SHAFT	
124	RUL1030YA	PLATE	
125	RMD5014ZC	SPACER	
126	RDG5927ZG	GEAR	
127	1DW0037ZA	FLYWHEEL ASS'Y	
127-1	RNW139ZA	WASHER	
128	1DW0038ZB	FLYWHEEL ASS'Y	
128-1	RNW138ZA	WASHER	
129	1DG0006ZB	GEAR	
130	RUB513ZD	LEVER	
131	1UB0091ZA	LEVER	
131-1	RUW146ZA	SPRING	
132	1DR0011ZB	PULLEY ASS'Y	
133	RDV90ZB	BELT	
134	RDG5769ZA	GEAR	
135	RUQ111ZB	SPRING	
136	RUW145ZA	SPRING	
137	1UB0090ZA	ROD ASS'Y	
137-1	RUB512ZB	ROD	
138	RDG5773ZB	GEAR	
139	RUQ112ZA	SPRING	
140	RUS609ZC	SPRING	
141	RUB514ZC	LEVER	
142	RUW147ZA	SPRING	
143	RUB515ZA	LEVER	
144	RUB509ZA	LEVER	
145	RDV108ZA	BELT	
149	RMG0102-1	RUBBER	
150	RNL180ZB	LEVER	
151	REX0308	CABLE ASS'Y	
161	XTW2+6L	SCREW	
163	XTN26+7J	SCREW	
164	RHE5203ZA	SCREW	
165	XTW2+8S	SCREW	
166	XYC2+JF16	SCREW	
167	RHD26002	SCREW	
168	RJS7T7ZA	CONNECTOR(J951)	
		DECK 2 (R/P)	
201	RXQ0007-2	HEAD ASS'Y	
201-1	RHE5152ZB	SCREW	
201-2	RUQ90ZC	SPRING	
202	RUA793ZF	CHASSIS	
203	RZLAR300	LEVER ASS'Y	
203-1	RUW143ZA	SPRING	
204	1UB0089ZA	LEVER ASS'Y	
204-1	RUW148ZA	LEVER	
205	1DM0018ZB	REEL TABLE ASS'Y	
206	1DM0017ZB	REEL TABLE ASS'Y	
207	RML0069-1	LEVER	
208	RDG5772ZC	GEAR	
209	RUB508ZB	LEVER	
210	RUB506ZB	LEVER	
211	1UB0088ZB	PINCH ROLLER ASS'Y	
211-1	RMB0310	SPRING	
212	1UB0087ZB	PINCH ROLLER ASS'Y	
212-1	RUW140ZC	SPRING	
214	RNL1ZD	ARM	
215	RUB503ZD	LEVER	
216	RFKRAA0320	CHASSIS ASS'Y	
217	RUW142ZA	SPRING	
218	RUD105ZA	SPRING	
220	RUW139ZA	SPRING	
221	RFKPAA0309	MOTOR ASS'Y	
222	1UE0015ZA	PLUNGER ASS'Y	
223	RUB428ZE	SHAFT	
224	RUL1030YA	PLATE	
225	RMD5014ZC	SPACER	
226	RDG5927ZG	GEAR	
227	1DW0037ZB	FLYWHEEL ASS'Y	
227-1	RNW139ZA	WASHER	
228	1DW0038ZB	FLYWHEEL ASS'Y	
228A	RNW138ZA	WASHER	
229	1DG0006ZB	GEAR ASS'Y	
230	RUB513ZD	LEVER	
231	1UB0091ZA	LEVER ASS'Y	
231-1	RUW146ZA	LEVER	
232	1DR0011ZB	PULLEY ASS'Y	
233	RDV90ZB	BELT	
234	RDG5769ZA	GEAR	
235	RUQ111ZB	SPRING	
236	RUW145ZA	SPRING	
237	1UB0090ZA	ROD ASS'Y	
237-1	RUB512ZB	ROD	
238	RDG5773ZB	GEAR	
239	RUQ112ZA	SPRING	
240	RUS609ZC	SPRING	
241	RUB514ZC	LEVER	
242	RUW147ZA	SPRING	
243	RUB515ZA	LEVER	
244	RUB509ZA	LEVER	
245	RDV108ZA	BELT	
249	RMG0102-1	RUBBER	
250	RNL180ZB	LEVER	
251	REX0294	CABLE ASS'Y	
261	XTW2+6L	SCREW	
263	XTN26+7J	SCREW	
264	RHE5203ZA	SCREW	
265	XTW2+8S	SCREW	
266	XYC2+JF16	SCREW	
267	RHD26002	SCREW	
268	RJS10T7ZA	CONNECTOR(J971)	
		LOADING PARTS	
101	RFKJLPG440BK	CHASSIS ASS'Y	
101A	RDG0142	LOADING GEAR	
101B	RDG0193	LOADING GEAR	
101C	RDP0041	PULLEY	
102	REM0019	MOTOR ASS'Y	
103	RMA0339	HOLDER	
104	RME0063	LOCK LEVER SPRING	
105	RME0087	SPRING	
106	RMG0158	BELT	
107	RML0177	CONVERSION LEVER	
108	RML0178-1	LOCK LEVER	
109	RMM0059-1	SLIDE PLATE(2)	
110	RMM0079	SLIDE PLATE(1)	
111	XTN26+6G	SCREW	
112	XYN2+F6FZ	SCREW	
113	RDB0036	GUIDE HOLDER	
114	RHD20010	SCREW	
115	RMU0046	GUIDE SHAFT	
116	RHM245ZA	MAGNET	
117	RMA0327-1	DISK CLAMPER	
118	RMR0334	MAGNET HOLDER	
119	RXQ0123	DISK HOLDER	
120	RFKNLPG440-K	DRIVE RACK ASS'Y	
121	RGQ0088-K	DISC TRAY	
122	RHD20009-1	SCREW	
123	XTB3+25GFZ	SCREW	
124	XTN26+6G	SCREW	
125	XTN3+8JFZ	SCREW	
126	RAE0111Z	TRAVERSE UNIT ASS'Y	
126A	SHGD112	RUBBER(A)	
126B	SHGD113-1	RUBBER(B)	
126C	RDV0023	BELT	
126D	SNSD38	SCREW	
127	RME0109	SPRING	
128	RMS0123-1	PIN(A)	
129	RMS0350	PIN(B)	
130	RMR0533-K	TRAVERSE CHASSIS	
131	XTV2+6G	SCREW	

■ LOADING UNIT PARTS LOCATION

Note:
When changing mechanism parts, apply the specified grease to areas marked "XX" as shown in the drawing.

Ref No.	Part No.
❶	SZZ0L30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CN701
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CP790
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